

CS001-Introduction to Computing  
Midterm Mega File  
Prepared By  
**Innocent Mishii Brave Heart**

**Mid Term Paper December 19, 2015**

- Q-1 As project manager what are parameters to write feasibility study report? (5 Marks)  
Q-2 Name any two languages that can't run w/o interpreter? (LISP, BASIC i wrote) 2 marks  
Q-3 Give six attributes of INPUT tag ? (3 marks)  
Q-4 What are two ,most important parameters of Algorithm analysis (I wrote time and other is memory which i Forgot) (5 Marks)  
Q-5 Steps for SW developer to make a program for an airline.  
Q-6 HTML code 4 writing a text of 40 words and 5 rows.

**Mid Term Paper December 20, 2015**

- Q-Server client script definition  
Q-Component of OS  
Q-Five name of SDLC phase  
Q- something about <input>

**Mid Term Paper December 28, 2015**

- 2)give examples of string,integer and identifier with variable "SUM"  
1)5 core tasks of os  
2)write pseudo code for if marks  $\geq 40$  there was a diagram  
3)correct html code relating to text area tag

4) write html code for input type text for 40 columns

5) at least two key features of spreadsheets

MCQS

\_\_\_\_\_ takes more time than deterministic and random. Answer: Monte Carlo algorithm

alert is \_\_\_\_\_ in javascript. Answer: Method

API is a \_\_\_\_\_ script. Answer: Server side.

<p></p> are example of \_\_\_\_\_ tags. Answer: Paired Tags.

javascript is \_\_\_\_\_ language. Answer: Object Based (Not object oriented)

\_\_\_\_\_ was the 1st gui based browser. Answer: Mosaic

## Mid Term Paper June 25, 2015

q1. heuristic 2 marks

q2. design phases 2 marks

q3. greedy algorithm 3 marks

q4. excel question of writing formulas (cgpa of male and female) 5 marks

q5. html and java script codes WERE GIVEN HAVE TO FIND OUT what is their function. 5 marks

q6. finding which one is objected oriented, near to machine language and structured language ( COBOL, JAVA, ASSEMBLY). 3 MARKS.

## Mid Term Paper December 20, 2013 to Jan 01, 2013

**What is meant by microprocessor's Instruction**

**Set ?(2) Answer:**

The set of machine instructions that a microprocessor recognizes and can execute – the only language microprocessor knows An instruction set includes low-level, a single step-at-a-time instructions, such as add, subtract, multiply, and divide. Each microprocessor family has its unique instruction set.

**Describe the function of an action**

**attribute?(2) Answer:**

Specifies the URL that is accessed when the form is being submitted

Example:

```
<form name="login" method="post" action="loginScript">  
</form>
```

**List down the names of any three parameters on which we analyze an algorithm?(3) Answer:**

**Computational**

**time Memory**

**Bandwidth**

**Logic**

**functions**

**What is a programming language? In traditional languages what was the problem by keeping data and methods separate?(3)**

**Answer:**

The process of telling the computer what to do and how to do.

**TYPES OF PROGRAMS**

**Batch Programs**

**Event-Driven Programs**

**Write down two positive features of client-side scripting.**

**Answer:**

(a) **Reduced server load as it does not have to send messages to the user's browser about missing or incorrect data**

(b) **Reduced network traffic as the form's data is sent only once instead of many to's and fro's**

(b) **Discuss two deficiencies of JavaScript.**

1. **It's either embedded in an HTML page or included in an HTML page so it's open source.**

2. **There are no libraries.**

**Q: why comments are important in coding?**

**Answer:**

*Comments are included on a Web page to explain how and why you wrote the page the way you did. The commented text is neither displayed in the browser nor does it have any effect on the logical performance of the Web page, and is visible only when the actual code is viewed. Comments can help someone other than the author to follow the logic of the page in the author's absence*

*JavaScript Comments*

*Single-line comments*

**Example:**

```
// Author: Bhola
```

*Multi-line comments*

**Example:**

```
/* Author: Bhola
```

```
Creation Date: 24 March 2003 */
```

**My Today paper of CS101 Midterm 22-12-2013**  
**Subjective**

**Q.No.1 write short keys of following? 2**

**Answer:**

**ctrl+c= copy**

**ctrl+B= Bold**

**ctrl+S= Save**

**Ctrl+V= Paste**

**Q.no.2 Write two important phase of design? 2**

**Answer:**

- 1. Requirement**
- 2. Planning**
- 3. Designing**

**Q.no.3 In which technique Objects are used and working of that? 3**

**Answer:**

**An object has *properties* – e.g. a window has size, position, status, etc.**

**Objects are modified with *methods* that are associated with that object – e.g. a resize a window with *resizeTo(150, 200)***

**Q.no.4 word processor WYSIWYG in which aspects is better than Markup Based processor?**

**5**


**Answer:**

**Generally are harder to learn, but may provide better control and smaller file size Example: LaTeX**

**Most current PC-based WP's belong to the WYSIWYG category Easy to get started due to the WIMP interface**

**Example: MS Word, Corel WordPerfect, Sun Star**

MISHM BRAVE



pdfelement

**Greedy algorithm?****Answer:**

**An algorithm that always takes the best immediate, or local solution while finding an Answer. Greedy algorithms may find the overall or globally optimal solution for some optimization problems, but may find less-than-optimal solutions for some instances of other problems.**

**KEY ADVANTAGE: Greedy algorithms are usually faster, since they don't consider the details of possible alternatives.**

**3.brute force strategy what is the problem with this approach?****Answer:**

A strategy in which all possible combinations are examined and the best among them is selected

**It is the technique in which all possible solution is checked in all solutions, So it is time consuming in situation in which large number of possible solution is available.**

**December 24, 2013**

- 1.greedy algorithm
- 2.html coding
- 3.brute force strategy what is the problem with this approach?
- 4.java script se related tha

**December 27, 2013**

1. most important 2parameters for analysis of algorithm wid explanation??
2. 2 languages use for coding of web pages??
3. can an object has another object as its property in javascript?? example?
4. greedy algorithm??
5. properties nd behaviours were written and u hv to identify which one is property and which is the behaviour (easiest q)??
  - a. car= speed, accelerate, applybreaks, pressure, color
  - b. student= name, registration no., study, eat, play

## December 30, 2013

- 1) Role of comments in coding (2)
- 2) define server side scripting (2)
- 3) A company is receiving complain by its customers that their pop-up window is big, how can the developers of the website make it small (3)
- 4) Tell about any 3 OSES (3)
- 5) Write output of following (5)
 

```
<html>
<head>
<script>
```
- 6) Write output of following (5)
 

```
<p> send e-mail to me </p>
<ol>
```

## June 08, 2014

- 1- Analytical computer - mechanical or electrical or electronic?
- 2- All microprocessor processes are supervised by----
- 3- Set of steps a software goes through when developed called----
- 4- Complex software development process require developers to follow rules called----
- 5- --- converts source code in high language into machine language
- 6- JavaScript was earlier known as----
- 7- Can application software directly communicate with hardware? explain
- 8- low power consumption computers are----- (MCQ)
- 9- defining variable in Java Script (2)
- 10- One detailed and one objective on TextArea tag
- 11- LISP - Compiler or interpreter?
- 12- Shortkey question such as Ctrl+c, F7, Ctrl+I (5)
- 13- Finding 5 errors in JavaScript function code
- 14- two questions on Object based/oriented programming advantages
- 15- 2 objectives on System softwares

## June 08, 2014

- Web development (Chapter 12, ) & Java Script (chapter 18, 21)
- Object oriented and object based programming
- Algorithms (chapter 16)
- client side and server side scripting (Chapter 15)
- OS (chapter 11)
- Application software (chapter 13)



### June 10, 2014

- Suppose you are a project manager in Zee tec software house you have the responsibility to prepare the feasibility report? 2 marks
- Highlight the 2 drawbacks of the java script? 2marks
- Suppose a user click a mouse button on an object then some events occur in response against this action. Which programming technique use for this? 3 marks
- Student A and student B han student B online study karta ha online study k Advantages btany thy. 3 marks
- How spread sheet id helpful in doing a ‘what-if’ analysis in business? Define with example? 5 marks
  - Aik HTML code tha 4 parts thy un main se every coding part ka purpose define karna tha

### June 14, 2014

Q1-A company requires a fire alarm (software system) that can generate alerts in case of emergency like short circuits or fire etc. keeping in view the types of programs, suggest what kind of program should be developed?

Q2-Identify the name of OS component which takes responsibilities of all essential operations like basic housekeeping, task scheduling, etc.

Q3-Write HTML code that generate an input filed with name text, 40 columns and 5 rows?

Q4-Can we use reserved words in a program as objects and variables name? Justify your answer.

Q5-A beginner learner of JavaScript puts very much effort to write the following piece of code in JavaScript. But despite of so much effort, program contains 5 errors at different places. You are required to find and write the errors with remarks.

```
Function throw ()  
{  
True= "true"  
document.write(True);  
10b=15;
```

## MIDTERM EXAMINATION Fall 2009

### CS101- Introduction to Computing (Session - 4)

Question No: 1 ( Marks: 1 ) - Please choose one

Human are better than computers at:

- ▶ Efficiency

▶ Accuracy

▶ **Pattern recognition**

▶ None of the given choices

Question No: 2 ( Marks: 1 ) - Please choose one

The memory size of the Altair 8800 was

▶ 128 bytes

▶ 128 Kilo bytes

▶ 256 Kilo bytes

▶ **256 bytes**

Question No: 3 ( Marks: 1 ) - Please choose one

Information on World Wide Web is \_\_\_\_\_ unified.

▶ Physically

▶ **Logically**

▶ Really

▶ None of the given choices

Question No: 4 ( Marks: 1 ) - Please choose one

Mainframe Computers are also called \_\_\_\_\_

▶ **Enterprise Servers**

▶ Personal Servers

▶ Enterprise Managers

▶ Window Servers

Question No: 5 ( Marks: 1 ) - Please choose one

Which of the following is NOT a category of Mobile Computers

- ▶ Laptop
- ▶ Palmtop
- ▶ **Desktop**
- ▶ Wearable

Question No: 6 ( Marks: 1 ) - Please choose one

Hexadecimal number system is based on ----- digits

- ▶ 2
- ▶ 8
- ▶ 12
- ▶ **16**

Question No: 7 ( Marks: 1 ) - Please choose one

<UL> tag is used to

- ▶ underline text
- ▶ end the line
- ▶ create ordered list
- ▶ **create unordered list**

Question No: 8 ( Marks: 1 ) - Please choose one

Bringing subsystems together to form the system is called

- ▶ Integration
- ▶ **Merging**
- ▶ Splitting
- ▶ Operation & Maintenance

Question No: 9 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ give us the ability to manipulate data through reference instead of actual value.

- ▶ Constants
- ▶ **Variables**
- ▶ Data Types
- ▶ Operators

Question No: 10 ( Marks: 1 ) - Please choose one

In spreadsheets, cell address A12 means\_\_\_\_\_.

- ▶ Row A, Cloumn 12
- ▶ **Row 12, Cloumn A**
- ▶ Row 2,Cloumn A1
- ▶ Row A1, Cloumn 2

Question No: 11 ( Marks: 1 ) - Please choose one

Which of the following is/are the parts of Operating system components?

- ▶ **All of these**
- ▶ GUI

- ▶ Device Manager
- ▶ Shell
- ▶ **All of these**

Question No: 12 ( Marks: 1 ) - Please choose one

The key feature of Scientific/Engineering/Graphics applications is \_\_ ▶ **Reliability**

- ▶ Intense calculations
- ▶ User-friendly
- ▶ **Reliability**
- ▶ Cost-effective

Question No: 13 ( Marks: 1 ) - Please choose one

Command which saves the selected text before deleting is

- ▶ **Cut**
- ▶ Copy
- ▶ Delete
- ▶ **Cut**
- ▶ Undo

Question No: 14 ( Marks: 1 ) - Please choose one

All the hardware components of the Computer system are installed on--▶ **Motherboard** -----.

- ▶ Microprocessor
- ▶ **Motherboard**
- ▶ Monitor
- ▶ Memory

Question No: 15 ( Marks: 1 ) - Please choose one

By default in a web page Hyper Link for another web page is represented as \_ **Blue and Underlined**

- ▶ Blue only
- ▶ Black and Underlined
- ▶ Blue and Bold
- ▶ **Blue and Underlined** ▶

Question No: 16 ( Marks: 1 ) - Please choose one

A microprocessor can be made more powerful by increasing its \_▶ **Clock frequency** \_\_\_\_\_

- ▶ **Clock frequency**
- ▶ Word length
- ▶ Clock frequency and Word length
- ▶ None of above

Question No: 17 ( Marks: 1 ) - Please choose one

- ▶ **Website**

\_\_\_\_\_ is a related collection of WWW files that includes a beginning file called a homepage

- ▶ HTML
- ▶ **Website**
- ▶ HTTP
- ▶ Web page

**Question No: 18 ( Marks: 1 ) - Please choose one**

Structures, in which another list starts before the first list is finished, are called: ▶ **Nested Lists**

- ▶ Multiple Lists
- ▶ **Nested Lists**
- ▶ Ordered Lists
- ▶ Un-ordered Lists

**Question No: 19 ( Marks: 1 ) - Please choose one**

When the user needs something to be done by the computer, he/she gives instructions in the form of **Software** \_\_\_\_\_ to computer **Hardware** \_\_\_\_\_

- ▶ **Software, Hardware**
- ▶ Hardware, Software
- ▶ System Software, Application Software
- ▶ Graph, Monitor

**Question No: 20 ( Marks: 1 ) - Please choose one**

Application developers do not need to know much about the\_ ▶ **Hardware**

\_\_\_\_\_ while they are developing their applications

- ▶ Software
- ▶ **Hardware**
- ▶ Operating System

- ▶ Kernel

Question No: 21 ( Marks: 1 ) - Please choose one

Which of the following is NOT an Application Software. **Windows XP**

- ▶ Word Processor
- ▶ Web Browser
- ▶ **Windows XP**
- ▶ MS Excel

Question No: 22 ( Marks: 1 ) - Please choose one

Web Pages developed for human as well computer understanding are called as; ▶ **Dynamic Web Pages**

- ▶ Static Web Pages
- ▶ Semantic Web Pages
- ▶ **Dynamic Web Pages**
- ▶ Java Web Pages

Question No: 23 ( Marks: 1 ) - Please choose one

JavaScript stores all numbers as \_ ▶ **Strings**

- ▶ Integers
- ▶ Floating point numbers
- ▶ **Strings**
- ▶ Character values



Question No: 24 ( Marks: 1 ) - Please choose one

Java script and HTML are\_\_ ► **Java script is case sensitive but HTML is not** \_\_\_\_\_.

- case sensitive
- Not case sensitive
- **Java script is case sensitive but HTML is not**
- HTML is case sensitive but Java script is not

Question No: 25 ( Marks: 1 ) - Please choose one

A diode functions as the electronic version of a **two** \_\_\_\_\_-way valve.

- one
- **two**
- three
- four

Question No: 26 ( Marks: 1 ) - Please choose one

The first - ► **Transistor** -----was invented at Bell Laboratories on December 16, 1947 by William Shockley.

- **Transistor**

▶ Vacuum Tube

▶ Punch card

▶ Transmitter

**Question No: 27 ( Marks: 1 )**

What are compilers used for ?

Ans: compiler is a softwear that can translate the whole programe in [once.it](https://www.once.it) also save the program.

**Question No: 28 ( Marks: 1 )**

What is Script?

Ans: script is a sequence of steps to carry out a work by processor And manage by a language like Javascript and vb scripts.

**Question No: 29 ( Marks: 2 )**

What is <P> tag in HTML and How it is different from <br> tag?

Ans: <p> is used for paragraph in HTML language it has a closing tag </p> unlike <br> which has no closing tag. Br only used to break the current line while <p> can be used for more lines

**Question No: 30 ( Marks: 3 )**

How can you manipulate the address of a file (resource) accessible on the Internet?

World wide web ,URL, domain name

[www.youtube.com](https://www.youtube.com)

**Question No: 31 ( Marks: 5 )**

Write Hyper Link for a Web Page and for an Email Address.

# MIDTERM EXAMINATION

Spring 2009

## CS101- Introduction to Computing

Time: 60 min

Marks: 43

Question No: 1 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ A diode  
functions as the electronic version of a \_\_\_\_\_-way valve.

- ▶ one
- ▶ two
- ▶ three
- ▶ four

Question No: 2 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ What is name of  
book from which word algorithm is taken ?

- ▶ Algebra and trigonometry
- ▶ Introduction to algorithms
- ▶ Research for new horizons
- ▶ **Algoritmi de numero Indorum**

Question No: 3 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ <form> Tags

always placed between the <BODY> and </BODY> tags of a Web page

▶ True

▶ False

Question No: 4 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ consists of cells arranged in rows & columns

▶ Spreadsheets Software

▶ Word processor

▶ Presentation Software

▶ Microsoft Paint Software

Question No: 5 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ was designed as a replacement for typewriter

▶ Spreadsheet Software

▶ Word Processor Software

▶ Presentation Software

▶ Database Software

Question No: 6 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ manages the HW and SW resources ( memory, disk drives etc) of the computer system, often invisibly.

▶ Explorer.exe

- ▶ System Files
- ▶ **Operating System**
- ▶ Application Software

**Question No: 7 ( Marks: 1 ) - Please choose one**

To display a radio button on the web page, we use \_\_\_ tag

- ▶ INPUTBUTTON
- ▶ INPUT
- ▶ RADIOBUTTON
- ▶ **RADIO**

**Question No: 8 ( Marks: 1 ) - Please choose one**

language is also called

- ▶ **Assembly Language**
- ▶ Binary Language
- ▶ High Level Language
- ▶ HTML Language

Machine

**Question No: 9 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ When the user needs something to be done by the computer, he/she gives instructions in the form of \_\_\_\_\_ to computer \_\_\_\_\_

- ▶ **Software, Hardware**
- ▶ Hardware, Software
- ▶ System Software, Application Software
- ▶ Graph, Monitor

**Question No: 10 ( Marks: 1 ) - Please choose one**

A truth table

defines the \_\_\_\_\_ of a logic function for all possible \_\_\_\_\_

- ▶ Input -- Outputs
- ▶ Output -- Inputs
- ▶ Process -- Inputs
- ▶ Input -- Processes

Question No: 11 ( Marks: 1 ) - Please choose one

Which one is

correct?

- ▶ <BODY></BODY>
- ▶ <body></body>
- ▶ Both <BODY></BODY> and <body></body>
- ▶ <BODY/>

Question No: 12 ( Marks: 1 ) - Please choose one

WWW stands

for:

- ▶ Wide World Web
- ▶ World Wide Web
- ▶ World White Web
- ▶ World Web Wide

Question No: 13 ( Marks: 1 ) - Please choose one

A

\_\_\_\_\_ translates a high-level language (that is easy to understand for humans) into a language that the computer can understand

- ▶ Computer
- ▶ Transistor

▶ Compiler

▶ Device

Question No: 14 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ Deep Blue was  
the name of

▶ computer

▶ human

▶ city

▶ game

Question No: 15 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ Data travels  
through bus in the form of -----

▶ Packets

▶ Bits

▶ Bytes

▶ Word

Question No: 16 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ Command  
which saves the selected text before deleting is

▶ Copy

▶ Delete

▶ Cut

▶ Undo

Question No: 17 ( Marks: 1 ) - Please choose one

AutoCAD falls

in the category of \_\_\_\_\_

▶ Engineering Applications

▶ Graphics Applications

▶ Scientific Applications

▶ Business Applications

Question No: 18 ( Marks: 1 ) - Please choose one

In Spreadsheets,

you can create a relationship between two cells by using \_\_\_\_\_

▶ Numbers

▶ Text

▶ Formulas

▶ None of the given choices

Question No: 19 ( Marks: 1 ) - Please choose one

Which of the

following symbol is used for multiple line comments in JavaScript?

▶ /

▶ //

▶ /\*

▶ /\*\*



Question No: 20 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ is a system software that converts the source code written in high level language into machine language code.

- ▶ Utilities
- ▶ Drivers
- ▶ Language Translator
- ▶ None of the these

Question No: 21 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ is a particularly good language for processing numerical data, but it does not lend itself very well to large business programs

- ▶ BASIC
- ▶ PASCAL
- ▶ JAVA
- ▶ FORTRAN

Question No: 22 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ Which of the following number system is used by microprocessor?

- ▶ Binary
- ▶ Decimal
- ▶ Octal
- ▶ Hexadecimal

Question No: 23 ( Marks: 1 ) - Please choose one

The

Processor is specially designed for PDA?

- ▶ PowerPC
- ▶ StrongARM
- ▶ Crusoe
- ▶ SPARC

Question No: 24 ( Marks: 1 ) - Please choose one

Mainframe

Computers are also called \_\_\_\_\_

- ▶ Enterprise Servers
- ▶ Personal Servers
- ▶ Enterprise Managers
- ▶ Window Servers

Question No: 25 ( Marks: 1 ) - Please choose one

URL is a/an

- ▶ Device
- ▶ Component
- ▶ Address
- ▶ Tool

Question No: 26 ( Marks: 1 ) - Please choose one

Ada, Countess

of Lovelace developed first:

- ▶ Computer
- ▶ Website
- ▶ Computer Program
- ▶ Analytical engine

**Question No: 27 ( Marks: 1 )**

What is the problem with Brute Force Strategy approach?

**Question No: 28 ( Marks: 1 )**

What was the name of first computer in which binary numbers were used instead of decimal numbers ?

**Question No: 29 ( Marks: 2 )**

How can we say that JavaScript is Not Object-Oriented language?

**Question No: 30 ( Marks: 3 )**

List down the names of any three parameters on which we analyze an algorithm.

**Question No: 31 ( Marks: 5 )**

Write differences between Shareware and Trialware software.

**Question No: 32 ( Marks: 5 )**

What is function of Goal Seek command in Excel?

**MIDTERM EXAMINATION**

**Fall 2009**

**CS101- Introduction to Computing (Session - 3)**

**Time: 60 min**

Marks: 43

Question No: 1 ( Marks: 1 ) - Please choose one

Today's

computers are based on the technology of \_\_\_\_\_

- ▶ Punch cards
- ▶ Vacuum tubes
- ▶ **Transistors**
- ▶ Resistors

Question No: 2 ( Marks: 1 ) - Please choose one

JavaScript

consider everything as. ©www.vuhelp.ning.com

- ▶ Control
- ▶ Window
- ▶ **Object**
- ▶ Statement

Question No: 3 ( Marks: 1 ) - Please choose one

A vocabulary

and set of grammatical rules for instructing a computer to perform specific tasks is called

- ▶ Software
- ▶ **Programming language**
- ▶ Device driver
- ▶ Interpreter

Question No: 4 ( Marks: 1 ) - Please choose one

Programs that

are typically started from a shell (or automatically via a scheduler) are called

▶ **Batch programs**

- ▶ Event-driven programs
- ▶ Sequential programs
- ▶ Application programs

**Question No: 5 (Marks: 1) - Please choose one**

In JavaScript,

what will be the result of the following operation (www.vuhelp.ning.com)

79%3

- ▶ 0
- ▶ **1**
- ▶ 2
- ▶ 3

**Question No: 6 (Marks: 1) - Please choose one**

In Spreadsheets,

you can create a relationship between two cells by using \_\_\_\_\_.

- ▶ Numbers
- ▶ Text
- ▶ **Formulas**
- ▶ None of the given choices

**Question No: 7 (Marks: 1) - Please choose one**

\_\_\_\_\_ translates the High level language program, one statement at time.

**► Interpreter**

- Compiler
- Utility program
- Anti virus software

**Question No: 8 ( Marks: 1 ) - Please choose one**

When we use

`<INPUT type="password">`, what will happen?

- Text will not be visible
- Text will be in normal format
- Text will be in \*\*\*\* format**
- Text will be in #### format

**Question No: 9 ( Marks: 1 ) - Please choose one**

Which one is

correct?

- `<HEAD> </HEAD>`**
- `<HEAD> <END>`
- `<HEAD> </END>`
- `<HEAD> <\HEAD>`

Question No: 10 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ The grand-daddy of the today's global Internet was

- ▶ WAN
- ▶ **ARPANET**
- ▶ Intranet
- ▶ LAN

Question No: 11 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ Compared to vacuum tubes, Transistors offer:

- ▶ Much smaller size
- ▶ Better reliability
- ▶ Much lower cost
- ▶ **All of the given choices**

Question No: 12 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ If a computer could pass the Turing test then it would be able to:

- ▶ **think like human beings**
- ▶ do the things faster
- ▶ win a million dollar prize
- ▶ store more information

Question No: 13 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ WWW stands for:

- ▶ Wide World Web
- ▶ **World Wide Web**

- ▶ World White Web
- ▶ World Web Wide

Question No: 14 (Marks: 1) - Please choose one

\_\_\_\_\_ is a client program that uses HTTP to make requests to Web servers throughout the internet on behalf of the user.

- ▶ Web Application
- ▶ **Web Browser**
- ▶ Internet Application
- ▶ HTML

Question No: 15 (Marks: 1) - Please choose one

\_\_\_\_\_ We can change the background color in HTML, using \_\_\_ attribute of <body>

- ▶ background
- ▶ **bgcolor**
- ▶ backcolor
- ▶ backgroundcolor

Question No: 16 (Marks: 1) - Please choose one

\_\_\_\_\_ are personal computers that are designed to be easily transported and relocated.

- ▶ Desktops
- ▶ **Portables**



- ▶ Servers
- ▶ Workstations

Question No: 17 (Marks: 1) - Please choose one

Which one of these is NOT an example of storage devices?

- ▶ Tape
- ▶ **RAM**
- ▶ Floppy
- ▶ DVD

Question No: 18 (Marks: 1) - Please choose one

Structures, in which another list starts before the first list is finished, are called:

- ▶ Multiple Lists
- ▶ **Nested Lists**
- ▶ Ordered Lists
- ▶ Un-ordered Lists

Question No: 19 (Marks: 1) - Please choose one

\_\_\_\_\_ maintains index of names and location of the files.

- ▶ File Folder
- ▶ **File manager** may be 3<sup>rd</sup> bt.....
- ▶ **File system**
- ▶ Operating system

Question No: 20 (Marks: 1) - Please choose one

\_\_\_\_\_ Microphone is an input as well as output device. This statement is

▶ True

▶ **False**

**Question No: 21 (Marks: 1) - Please choose one**

Which of the following manages the HW and SW resources of the computer system?

▶ Hardware

▶ System Software

▶ **Operating system**

▶ Graphics Software

**Question No: 22 (Marks: 1) - Please choose one**

Web Pages developed for human as well computer understanding are called as;

▶ Static Web Pages

▶ **Semantic Web Pages**

▶ Dynamic Web Pages

▶ Java Web Pages

**Question No: 23 (Marks: 1) - Please choose one**

\_\_\_\_\_ is generally measured in terms of the number of steps required to execute an algorithm.

▶ Space

▶ **Time**

▶ Memory and time

- ▶ Bandwidth

Question No: 24 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ In \_\_\_\_\_, the software developer decomposes the problem into subsystems and defines their relationships.

- ▶ **Detailed Design**                      **may be 4th**
- ▶ **Integration Testing**
- ▶ **Design**
- ▶ **Architecture**

Question No: 25 ( Marks: 1 ) - Please choose one

- Invented at the Imperial University in Tokyo by Yoshiro Nakamats

- ▶  Hard drive
- ▶  Flash drive
- ▶  **Floppy disk**
- ▶  Optical disc

Question No: 26 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ **Algorithm** gives us:

- ▶ Definition of a problem
- ▶ **Sequence of steps to solve a problem**
- ▶ Proper understanding of a problem
- ▶ Solution to a problem

**Question No: 27 ( Marks: 1 )**

Who is allowed to access Web ?

Every1

**Question No: 28 ( Marks: 1 )**

What is meant by non-volatile memory ? Give any example.

ROM

**Question No: 29 ( Marks: 2 )**

What is the purpose of ADA programming language?

**Question No: 30 ( Marks: 3 )**

How can we calculate total number of rows in the truth table?

$2^n$ ..... where n is number of inputs...

**Question No: 31 ( Marks: 5 )**

Write differences between Shareware and Trialware software.

**Question No: 32 ( Marks: 5 )**

Write an HTML CODE for the following Output on browser:

Male

Female

<Input type = "radio" name="Gender" Selected> Male<BR>

<Input type = "radio" name="Gender" > Female

## CS101 Mid Term Paper: 2011

Question No: 1 ( Marks: 1 ) - Please choose one  
----- was known as "mill" in Analytical engine.

- ▶ Memory
- ▶ **Processor**
- ▶ Monitor
- ▶ Mouse

Question No: 2 ( Marks: 1 ) - Please choose one  
Vacuum tubes were replaced by \_\_\_\_

- ▶ Punch cards
- ▶ **Transistors**
- ▶ Micro Processors
- ▶ Resistors

Question No: 3 ( Marks: 1 ) - Please choose one  
The impact of a digit in a number is determined by its -----

- ▶ Value
- ▶ **Location**
- ▶ Length
- ▶ None of above

Question No: 4 ( Marks: 1 ) - Please choose one (www.vuhelp.ning.com)

Detailed plan, specifying the required resources and expected deliverables, is done in \_\_\_\_\_ phase.

- ▶ **Planning**
- ▶ User Requirements
- ▶ Design
- ▶ Developer Specification

Question No: 5 ( Marks: 1 ) - Please choose one  
Which of the following application is collections of cells?

- ▶ Word
- ▶ **Excel**
- ▶ PowerPoint
- ▶ Outlook Express

Question No: 6 ( Marks: 1 ) - Please choose one  
VisiCalc was the first popular \_\_\_\_\_ application on PC's.

▶ **Spreadsheet**

- ▶ Word processor
- ▶ Presentation
- ▶ Database

Question No: 7 ( Marks: 1 ) - Please choose one  
\_\_\_\_\_ is the example of Shrink-wrapped software

- ▶ PIA information system
- ▶ WinZip trial pack
- ▶ Linux

▶ **MS Word**

Question No: 8 ( Marks: 1 ) - Please choose one  
Which of the following is/are the parts of Operating system components?

- ▶ GUI
- ▶ Device Manager
- ▶ Shell
- ▶ **All of these**

Question No: 9 ( Marks: 1 ) - Please choose one  
Spread sheet is a type of \_\_\_\_\_.

- ▶ Productivity software
- ▶ Engineering software
- ▶ Mathematical software
- ▶ **Business software**

Question No: 10 ( Marks: 1 ) - Please choose one  
Register is a kind of \_\_\_\_\_ memory

- ▶ **Fast**
- ▶ Super fast
- ▶ Slow
- ▶ Very slow

Question No: 11 ( Marks: 1 ) - Please choose one  
The grand-daddy of the today's global Internet was

- ▶ WAN
- ▶ **ARPANET**
- ▶ Intranet

▶ LAN

Question No: 12 ( Marks: 1 ) - Please choose one

A \_\_\_\_\_ translates a high-level language (that is easy to understand for humans) into a language that the computer can understand

- ▶ Computer
- ▶ Transistor
- ▶ **Compiler**
- ▶ Device

Question No: 13 ( Marks: 1 ) - Please choose one

Web is a unique invention by humans in terms that it is:

- ▶ accessible to only the owners who control it
- ▶ accessible from particular locations only
- ▶ **accessible to all humans**
- ▶ accessible to only the educational institutes

Question No: 14 ( Marks: 1 ) - Please choose one

ASCI WHITE is the fastest Super computer which can perform \_\_\_\_\_ calculations in one second.

- ▶ 1.3 billion
- ▶ **1.3 trillion**
- ▶ 1.3 million
- ▶ 1.3 thousand

Question No: 15 ( Marks: 1 ) - Please choose one

Which one of these is NOT an example of storage devices?

- ▶ Tape
- ▶ RAM
- ▶ Floppy
- ▶ **DVD**

Question No: 16 ( Marks: 1 ) - Please choose one

1 byte consists of:

- ▶ **8 bits**
- ▶ 10 bits
- ▶ 12 bits
- ▶ 16 bits

Question No: 17 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ is the example of server-side scripts on Unix servers.

- ▶ ASP
- ▶ **CGI**
- ▶ VBScript

▶ JavaScript

Question No: 18 ( Marks: 1 ) - Please choose one

Randomized algorithms are often \_\_\_\_\_ than deterministic algorithms for the same problem.

- ▶ Simpler and more slow
- ▶ **Simpler and more efficient**
- ▶ Complex and more efficient
- ▶ Complex and more slow

Question No: 19 ( Marks: 1 ) - Please choose one

In JavaScript, a || b is interpreted as

- ▶ a is true or b is false
- ▶ a is true and b is true
- ▶ a is false and b is true
- ▶ **a is true or b is true or both are true**

Question No: 20 ( Marks: 1 ) - Please choose one

The intersection of a row and a column is called

- ▶ Data
- ▶ Field
- ▶ Formula
- ▶ **Non of the above**

Question No: 21 ( Marks: 1 ) - Please choose one

HTML pages are edited by \_\_\_\_\_

- ▶ MS Front page
- ▶ Notepad
- ▶ Dreamweaver
- ▶ **All of These**

Question No: 22 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ software directly interacts with the user.

- ▶ **Application software**
- ▶ System software
- ▶ Anonymous software
- ▶ Interactive software

Question No: 23 ( Marks: 1 ) - Please choose one



What is the key feature of computer which is against human nature?

- ▶ **Can't get bored.**
- ▶ Pattern recognition
- ▶ Repetition
- ▶ None

Question No: 24 ( Marks: 1 ) - Please choose one

----- Invented at the Imperial University in Tokyo by  
Yoshiro Nakamats

- ▶ Hard drive
- ▶ Flash drive
- ▶ **Floppy disk**
- ▶ Optical disc

Question No: 25 ( Marks: 1 ) - Please choose one

This element of Flow Chart is called \_\_\_\_\_.

- ▶ Process
- ▶ Off page connector
- ▶ Decision
- ▶ Connector

Question No: 26 ( Marks: 1 ) - Please choose one

In flow charts, there is only one entry point in conditions while  
there is/are \_\_\_\_\_ exit points.

- ▶ **1**
- ▶ 2
- ▶ 3
- ▶ 4

Question No: 27 ( Marks: 1 )

What is the difference between a web page and a website ?

Ans.

Question No: 28 ( Marks: 1 )

What is java script?

Question No: 29 ( Marks: 2 )

What is the usage of microcontrollers? Give two examples.

Question No: 30 ( Marks: 3 )

What is title tag in HTML? Give an example of title tag showing Virtual University of Pakistan as web page title.

Question No: 31 ( Marks: 5 )

Fill the column 3 of the table after evaluating the expressions in column 2

Operator	Expression	Result
+	a=2;	
	b=a+5; b=7	
/	a=15;	
	b=5; a/b=3	
%	a=15;	
	b=75; b%a=11.25	
*	a=5;	
	b=9;	
	c=a*b c=45	
-	a=90;	
	b=100;	
	c=a-b c=-10	

Question No: 32 ( Marks: 5 )

How you can enhance the capability of a micro processor?

**MIDTERM EXAMINATION**

**Spring 2010**

**CS101- Introduction to Computing (Session - 5)**

**Time: 60 min**

**Marks: 38**

Question No: 1 ( Marks: 1 ) - Please choose one

The impact  
of a digit in a number is determined by its -----

- ▶ Value
- ▶ Location
- ▶ Length
- ▶ None of above

**Question No: 2 ( Marks: 1 ) - Please choose one**

The default  
bullet for the list in HTML is

- ▶ Circle shape
- ▶ Disc shape
- ▶ Square shape
- ▶ Triangle shape

**Question No: 3 ( Marks: 1 ) - Please choose one**

Command  
which saves the selected text before deleting is

- ▶ Copy
- ▶ Delete
- ▶ Cut

▶ Undo

**Question No: 4 ( Marks: 1 ) - Please choose one**

Supercomputers

are used in:

- ▶ Weather forecasting
- ▶ Aeroplane manufacturing
- ▶ Atomic bomb experiments
- ▶ All of the given choices

**Question No: 5 ( Marks: 1 ) - Please choose one**

Which one of

these is NOT an example of storage devices?

- ▶ Tape
- ▶ RAM
- ▶ Floppy
- ▶ DVD

**Question No: 6 ( Marks: 1 ) - Please choose one**

manages the HW and SW resources ( memory, disk drives etc) of the computer system, often invisibly.

- ▶ Explorer.exe
- ▶ System Files
- ▶ Operating System
- ▶ Application Software

**Question No: 7 ( Marks: 1 ) - Please choose one**

PowerBuilder

falls in the category of \_\_\_\_\_.

- ▶ Assembly Languages
- ▶ 4-th Generation Languages
- ▶ Machine Languages
- ▶ High-Level Languages

**Question No: 8 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ OO software is all about \_\_\_\_\_.

- ▶ Behaviors
- ▶ Methods
- ▶ Properties
- ▶ Objects

**Question No: 9 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ Java script has - \_\_\_\_\_ ability to create and draw graphics.

- ▶ Limited
- ▶ Versatile
- ▶ Medium

▶ Not at all

**Question No: 10 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ Analytical Engine is not a single physical machine but a succession of designs that Babbage tinkered with until his death in 1871.

▶ True

▶ False

**Question No: 11 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ Which statement is true about JavaScript?

▶ It is object oriented language

▶ It is Structured Query language

▶ It is object based language

▶ None of the given

**Question No: 12 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ Which one of the following is Read Only property.

▶ None of the given options

▶ Fgcolor

▶ Title

▶ Referrer

**Question No: 13 ( Marks: 1 ) - Please choose one**

Which of the following memory retains its information when the power to the system is turned off?

- ≡ RAM
- ≡ ROM
- ≡ DIMM
- ≡ DRAM

**Question No: 14 ( Marks: 1 ) - Please choose one**

Norton utilities are a popular -----design for window operating system.

- ▶ Antivirus program
- ▶ File compression utility
- ▶ Personal firewall
- ▶ Personal computer maintenance utility

Question No: 15 ( Marks: 1 ) - Please choose one

Form tag has two main properties namely----- and -----.

▶  Method & Action

▶  Type

▶  Value

▶  Size

Question No: 16 ( Marks: 1 ) - Please choose one

Shareware, ----- and custom-built programs are not usually available on the web for users to download.

▶ Freeware

▶ Shareware

▶ Trial ware

▶ Hardware

Question No: 17 ( Marks: 2 )

What is Ockham's Razor principle ?

Question No: 18 ( Marks: 2 )



What do you

mean by Comments?

Question No: 19 ( Marks: 2 )

Ref No: 1341217

How can you open a link in a new browser window?

Question No: 20 ( Marks: 3 )

Time: 60 min

How spreadsheet is helpful in doing “what-if” scenario analysis in a business? Explain with the help of an example.

Marks: 38

Question No: 21 ( Marks: 3 )

How do you justify that UNIX is better than Windows operating system?

Question No: 22 ( Marks: 5 )

What is the difference between checkboxes and radio button?

Question No: 23 ( Marks: 5 )

Draw flowchart to find the sum and average of three numbers

**MIDTERM EXAMINATION**

**Spring 2010**

**CS101 Introduction to Computing (Session - 1)**

Question No: 1 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ language is very good for writing well-structured and readable programs, but it is not as flexible as the C programming

## language

- ▶ BASIC
- ▶ PASCAL
- ▶ JAVA
- ▶ FORTRAN

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**Question No: 2** (Marks: 1) - Please choose one  
interacts directly with the computer Hardware

- ▶ Compiler
- ▶ Operating system
- ▶ Application software
- ▶ Assembler

**Question No: 3** (Marks: 1) - Please choose one  
If type attribute of INPUT tag is set to "reset", then it will:

- ▶ Save all the data
- ▶ Set the shape of all the fields
- ▶ Set all fields to their default values
- ▶ Do nothing, you have to write code for it

**Question No: 4** (Marks: 1) - Please choose one  
Programs that reside on Web servers and receive info that a user enters in a form, are known as:

- ▶ Server-Side Scripts
- ▶ Client-Side Scripts
- ▶ Super Scripts
- ▶ Form Scripts

**Question No: 5** (Marks: 1) - Please choose one  
The world first computer program was written to compute:

- ▶ Simple sequence
- ▶ Multiple sequence
- ▶ Bernoulli's sequence page 9
- ▶ Increasing sequence

**Question No: 6** (Marks: 1) - Please choose one

**The key strengths of computers are**

- ▶ **Speed**
- ▶ **Storage**
- ▶ **Do not get bored**

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- ▶ All of the given choices

**Question No: 7** (Marks: 1) - Please choose one

\_\_\_\_\_ is the interface in computer that supports transmission of multiple bits at the same time.

- ▶ Serial Port
- ▶ Parallel Port page 24
- ▶ Universal Serial Bus
- ▶ None of the given choices

**Question No: 8** (Marks: 1) - Please choose one

Which of the following is NOT supported by PC's power supply.

- ▶ -12 and +12 V DC
- ▶ -10 and +10 V DC
- ▶ -5 and + 5 V DC
- ▶ All are supported

**Question No: 9** (Marks: 1) - Please choose one

NOWRAP extends \_\_\_\_\_ of a cell, if necessary, to fit the contents of the in a single line the cell

- ▶ Height
- ▶ Length
- ▶ Width page 56
- ▶ Value

**Question No: 10** (Marks: 1) - Please choose one

We need \_\_\_\_\_ for memory management in computer

- ▶ Software
- ▶ Hardware
- ▶ Operating System
- ▶ Application Software

**Question No: 11** (Marks: 1) - Please choose one

The first component of an operating system that runs when a typical computer is turned ON, is:

- ▶ Device Manager
- ▶ File Manager
- ▶ Loader
- ▶ Device Driver

**Question No: 12** ( Marks: 1 ) - Please choose one  
**Speakers fall into the hardware category.**

- ▶ True
- ▶ False

**Question No: 13** ( Marks: 1 ) - Please choose one

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---

HTML pages are edited  
by \_\_\_\_\_

- ▶ MS Front page
- ▶ Notepad
- ▶ Dreamweaver
- ▶ All of These

---

**Question No: 14** ( Marks: 1 ) - Please choose one  
PowerBuilder falls in the category of \_\_\_\_\_ .

- ▶ Assembly Languages
- ▶ 4-th Generation Languages
- ▶ Machine Languages
- ▶ High-Level Languages

---

**Question No: 15** ( Marks: 1 ) - Please choose one  
Java script is an.

- ▶ Object based language
- ▶ All of the given page 96
- ▶ Interpreted language
- ▶ Event driven language

---

**Question No: 16** ( Marks: 1 ) - Please choose one  
In java script objects \_\_\_\_\_ properties.

may have

- ▶ Single
- ▶ Several
- ▶ Multiple
- ▶ All of the given options

---

**Question No: 17** ( Marks: 2 )

<A "HREF=VU Home Page"> Click Here </A>  
Correct above HTML code segment.

**Question No: 18 ( Marks: 2 )**

---

**Give an example of an Interactive and Batch mode of Application Software?**

**Question No: 19 ( Marks: 2 )**

---

**What is best algorithm?**

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**Question No: 20 ( Marks: 3 )**

**Write three characteristics of JavaScript.**

**Question No: 21 ( Marks: 3 )**

**What is the difference WYSIWYG and Markup based word processing?**

**Question No: 22 ( Marks: 5 )**

**What are the two key features of UNDO command in MS-Excel ?**

**Question No: 23 ( Marks: 5 )**

**Write down the classification of the software's according to the Mode with examples?**

**MIDTERM EXAMINATION**

**Spring 2010**

**CS101- Introduction to Computing (Session - 3)**

**Q1**

**Charles Babbage was  
a/an**

- (a) Mathematician**
- (b) Computer Scientist**
- (c) Physician**
- (d) Analyst**

**Q2**

**First electronic computer was**

- (a) ABC**
- (b) UNVAC 1**
- (c) Harvard Mark 1**
- (d) IBM PC**

**Q3**

**The Last famous electro-mechanical computer was**

- (a) ENIAC**

- (b) **EDVAC**
- (c) **Harvard Mark 1**
- (d) **Altair 8800**

**Q4**

The memory size of the Altair 8800 was

- (a) **128 bytes**
- (b) **256 bytes**
- (c) **128 Kilo bytes**
- (d) **256 Kilo bytes**

**Q5**



This element of Flow Chart is called \_\_\_\_\_.

- (a) **Process**
- (b) **Process**
- (c) **Decision**
- (d) **Connector**

**Q6**

JavaScript is an example of \_\_\_\_\_ language.

- (a) **Object-based**
- (b) **Object-oriented**
- (c) **Machine**
- (d) **Assembly**

**Q7**

\_\_\_\_\_ interacts directly with the computer Hardware

- (a) **Compiler**
- (b) **Operating system**
- (c) **Application software**
- (d) **Assembler**

**Q8**

In Spreadsheets, you can create a relationship between two cells by using \_\_\_\_\_.

- (a) **Numbers**
- (b) **Text**
- (c) **Formulas**
- (d) **None of the given choices**

**Q9**

In spreadsheets, cell address A12 means\_\_.

- (a) **Row A, Cloumn 12**
- (b) **Row 12, Cloumn A**
- (c) **Row 2, Cloumn A1**
- (d) **Row A1,**

**Cloumn 2 Q10**

VisiCalc was the first popular\_\_ application on PC's.

- (a) **Spreadsheet**

- (b) Word processor**
- (c) Presentation**
- (d) Database**

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Q11

\_\_\_\_\_ is the example of Shrink-wrapped software

- (a) PIA information system
- (b) WinZip trial pack
- (c) Linux
- (d) **MS Word**

Q12

The key feature of Scientific/Engineering/Graphics applications is \_

- (a) **Intense calculations**
- (b) User-friendly
- (c) Reliability
- (d) Cost-

effective Q13

ERP is a type of

- (a) **Entertainment software**
- (b) Productivity software
- (c) Business software
- (d) Scientific

software Q14

When we use <INPUT type="password">, what will happen?

- (a) Text will not be visible
- (b) Text will be in normal format
- (c) **Text will be in \*\*\*\* format**
- (d) Text will be in ####

format Q15

Video Card has its own -----

- (a) **Memory**
- (b) Processor
- (c) Memory & Processor
- (d) Neither memory nor

Processor Q16

Using only HTML we can create

- (a) Dynamic web pages
- (b) **Static web pages**
- (c) Both Static and Dynamic pages
- (d) None of

these Q17

The world first computer program was written to compute:

- (a) Simple sequence
- (b) Multiple sequence
- (c) **Bernoulli's sequence**
- (d) Increasing

sequence Q18

**Computers are good at**

**(a) Speed**

**(b) Storage**

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- (c) Never bored
- (d) **All of the given choices**

Q19

\_\_\_\_\_ is an application program that provides a way to look at and interact with all the information on the World Wide Web

- (a) URL
- (b) **Browser**
- (c) HTML
- (d) Websi

te Q20

\_\_\_\_\_ contains the name of the protocol required to access the resource, a domain name that identifies a specific computer on the internet and a pathname on the computer

- (a) HTML
- (b) **HTTP**
- (c) URL
- (d) WW

W Q21

\_\_\_\_\_ is the interface in computer that supports transmission of multiple bits at the same time.

- (a) Serial Port
- (b) **Parallel Port**
- (c) Universal Serial Bus
- (d) None of the given

choices

Q22

Forms can be submitted by using \_\_\_\_\_ different methods

- (a) **2**
- (b) 3
- (c) 4
- (d) 5

Q23

Forms can be submitted through \_\_\_\_\_ & \_\_\_\_\_ methods

- (a) INCLUDE, POST
- (b) INCLUDE, GET
- (c) **GET, POST**
- (d) SEND,

POST Q24

\_\_\_\_\_ maintains index of names and location of the files.

- (a) **File manager**
- (b) File system
- (c) File Folder
- (d) Operating

**system Q25**

**Now a days, users communicate with the computer using a consistent \_\_\_\_\_**

**provided by the Operating System.**

**(a) Command-line interface.**

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- (b) Application Interface
- (c) **User Interface**
- (d) Proto

col Q26

If an algorithm is syntactically correct, but semantically incorrect then this situation is

- (a) Very good situation
- (b) **Very dangerous situation**
- (c) Not very bad
- (d) Neutral

situation Q27

What is the problem with Brute Force Strategy approach?

**Solution:-**

Doesn't scale well with the size of the problem

Q28

What is software design methodology?

**Solution:-**

The set of (often flexible) rules and guidelines a team of developers follow to construct reasonably complex SW systems

Q29

What is the name of HTML tag, that has Href attribute and What is the Purpose of Href?

**Solution:-**

`<A HREF = "action" > label </A>`

It is used to to create Links between pages, or we can used it as "mailto" function. Q30

Write three characteristics of JavaScript.

**Solution:-**

- (1) JavaScript has numerous operators, classified in many categories.
- (2) Terminate all JavaScript statements with a semicolon. It is not always necessary, but highly recommended.
- (3) JavaScript ignores any extra white spaces or line breaks that you put in the code
- (4) Although JavaScript allows variable declaration, it does not require it - except in the case when
- (5)

Q31

Give reasons why we need semantic web?

**Solution:-**

Whereas, today's Web's content is designed for humans to read; the Semantic Web's content will be designed for computers to understand



**meaningfully. However, the Semantic Web is not a replacement but an extension of the present Web, in which info is given well defined meaning**

Q32

**What are the two key features of UNDO command in MS-Excel ?**

**Solution:-**

1. Allows you to recover from your mistakes

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Allows you to experiment without risk

**MIDTERM EXAMINATION**  
**Spring 2010**

**CS101- Introduction to Computing (Session - 4)**

Question No: 1 ( Marks: 1 ) - Please choose one

---

**A procedure that usually, but not always, works or that gives nearly the right answer is called**

- ▶ Algorithm
- ▶ Logarithm
- ▶ Heuristic
- ▶ Methodology

Question No: 2 ( Marks: 1 ) - Please choose one

---

**Which of the following is NOT an Application Software.**

- ▶ Word Processor
- ▶ Web Browser
- ▶ Windows XP
- ▶ MS Excel

Question No: 3 ( Marks: 1 ) - Please choose one

---

**Operating System talks to and manages devices through**

- ▶ Loader
- ▶ File Manager
- ▶ Memory Manager
- ▶ Device Driver

Question No: 4 ( Marks: 1 ) - Please choose one

---

**You can \_\_\_\_\_ from/to a website containing interactive forms.**

- ▶ Only read
- ▶ Only write
- ▶ Read and write
- ▶ Not read and write

**Question No: 5** ( Marks: 1 ) - Please choose one

When the user needs something to be done by the computer, he/she gives instructions in the form of \_\_\_\_\_ to computer \_\_\_\_\_

▶ Software, Hardware

▶ Hardware, Software

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- ▶ System Software, Application Software
- ▶ Graph, Monitor

**Question No: 6** (Marks: 1) - Please choose one

---

There is a battery on the motherboard to:

- ▶ Give power to the processor
- ▶ Save information when computer is off
- ▶ Save information when computer is on
- ▶ Give power to the motherboard

**Question No: 7** (Marks: 1) - Please choose one

---

\_\_\_\_\_ is simply a fast port that lets you connect computer peripherals and consumer electronics to your computer without restart.

- ▶ Freeware
- ▶ Shareware
- ▶ Firewire
- ▶ Firmware

**Question No: 8** (Marks: 1) - Please choose one

---

Which one is correct?

- ▶ `<BODY></BODY>`
- ▶ `<body></body>`
- ▶ Both `<BODY></BODY>` and `<body></body>`
- ▶ `<BODY/ >`

**Question No: 9** (Marks: 1) - Please choose one

---

The weaknesses of the computer are:

- ▶ Pattern recognition & Storage
- ▶ Speed & Innovative ideas
- ▶ Pattern recognition & Innovative ideas
- ▶ Speed & Storage

**Question No: 10** (Marks: 1) - Please choose one

---

The key strengths of computers are

- ▶ Speed
- ▶ Storage
- ▶ Do not get bored
- ▶ All of the given choices

Question No: 11 ( Marks: 1 ) - Please choose one

Which one is correct?

- ▶ <HEAD> </HEAD>
- ▶ <HEAD> <END>

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- ▶ **<HEAD> </END>**
- ▶ **<HEAD> <\HEAD>**

**Question No: 12** ( Marks: 1 ) - Please choose one

---

**Everything that JavaScript manipulates is treated as:**

▶ **Object**

- ▶ **Window**
- ▶ **Text**
- ▶ **Script**

**Question No: 13** ( Marks: 1 ) - Please choose one

---

**A process in which user's browser check the form's data is called**

▶ **Server-Side Scripting**

- ▶ **Client-Side Scripting**
- ▶ **Bowser Scripting**
- ▶ **Form Scripting**

**Question No: 14** ( Marks: 1 ) - Please choose one

---

**----- is volatile memory**

▶ **RAM**

- ▶ **ROM**
- ▶ **Hard Disk**
- ▶ **CD ROM**

**Question No: 15** ( Marks: 1 ) - Please choose one

---

**WYSIWYG stands for**

- ▶ **What you say is what you get**
- ▶ **What you see is what you get**
- ▶ **Where you see is where you go**

▶ **What you see is what you get**

► **When you see is when you get**

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**Question No: 16** ( Marks: 1 ) - Please choose one

**What is/are the use/uses of Word processor?**

- ▶ To write a letter
- ▶ To write Research paper or report
- ▶ To create address labels
- ▶ All of the given

Question No: 17 ( Marks: 1 ) - Please choose one

**\_\_\_\_\_ is the example of Shrink-wrapped software**

- ▶ PIA information system
- ▶ WinZip trial pack
- ▶ Linux
- ▶ MS Word

Question No: 18 ( Marks: 1 ) - Please choose one

**\_\_\_\_\_ interacts directly with the computer Hardware**

- ▶ Compiler
- ▶ Operating system
- ▶ Application software
- ▶ Assembler

**Question No: 19** ( Marks: 1 ) - Please choose one

**Which of the following symbol is used for multiple line comments in JavaScript?**

- ▶ /
- ▶ //
- ▶ /\*
- ▶ /\*\*

Question No: 20 ( Marks: 1 ) - Please choose one

Consider the following statement written in

JavaScript: str = "Hello" + " World"



**What will be the value of str ?**

▶ HelloWorld

▶ Hello World

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- ▶ Hello + World
- ▶ It will result in error

**Question No: 21** ( Marks: 1 ) - Please choose one

\_\_\_\_\_ give us the ability to manipulate data through reference instead of actual value.

- ▶ Constants
- ▶ Variables
- ▶ Data Types
- ▶ Operators

**Question No: 22** ( Marks: 1 ) - Please choose one

Bringing subsystems together to form the system is called

- ▶ Integration
- ▶ Merging
- ▶ Splitting
- ▶ Operation & Maintenance

**Question No: 23** ( Marks: 1 ) - Please choose one

Preliminary exploration of possible solutions, technologies, suppliers is called

- ▶ Viability
- ▶ Feasibility
- ▶ Specification
- ▶ Integration

**Question No: 24** ( Marks: 1 )

- Please choose one

Algorithm gives us:

- ▶ Definition of a problem
- ▶ Sequence of steps to solve a problem
- ▶ Proper understanding of a problem
  
- ▶ Solution to a problem

**Question No: 25** ( Marks: 1 ) -

Please choose one Web site is

*collection of related* \_\_\_

- ▶ **Web pages**
- ▶ **Information**
- ▶ **Search Engines**
- ▶ **None of the given choices**

Question No: 26 ( Marks: 1 ) - Please choose one

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---

Information on World Wide Web is

\_\_\_\_\_ unified

- ▶ **Physically**
- ▶ Logically
- ▶ **Really**
- ▶ **None of the given choices**

---

**Question No: 27 (Marks: 1)**

**What is coding?**

---

**WYSIWYG**

---

**Question No: 28 (Marks: 1)**

**Define URL**

---

---

**Question No: 29 (Marks: 2)**

**What is Deterministic Algorithm?**

---

---

**Question No: 30 (Marks: 3)**

**How can we calculate total number of rows in the truth table?**

---

---

**Question No: 31 (Marks: 5)**

**What are JavaScript literal and what are its types?**

---

---

**Question No: 32 (Marks: 5)**

**What is the impact of web on our Society and Business?**

---

**MIDTERM EXAMINATION**

**Spring 2010**

**CS101- Introduction to Computing (Session - 6)**

---

**Question No: 1**

**(Marks: 1) - Please choose one**

---

Vacuum tubes were replaced by \_\_\_\_\_

▶ **Punch cards**

▶ **Transistors**

▶ **Micro Processors**

▶ **Resistors**

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**Question No: 2*****(Marks: 1) - Please choose one***

---

**Hexadecimal number system is based on ----- digits**

- ▶ 2
- ▶ 8
- ▶ 12
- ▶ 16

**Question No: 3*****(Marks: 1) - Please choose one***

---

**Java script interact with user through \_\_\_\_\_**

- ▶ Special control
- ▶ Internet explorer
- ▶ Event handlers
- ▶ Java script does not interact with user

**Question No: 4*****(Marks: 1) - Please choose one***

---

**Which one is correct for JavaScript?**

▶ `onMouseOver`

▶ `OnMouseOver`

▶ `onmouseover`

▶ All of the given

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**Question No: 5****( Marks: 1 ) - Please choose one**

**Programs that reside on Web servers and receive info that a user enters in a form, are known as:**

▶ **Server-Side Scripts**

▶ **Client-Side Scripts**

▶ **Super Scripts**

▶ **Form Scripts**

**Question No: 6****( Marks: 1 ) - Please choose one**

**The \_\_\_\_\_ is connected to all other modules of the microprocessor.**

▶ **Control unit**

▶ **Memory unit**

▶ **Floating Point unit**

▶ **Arithmetic and Logic unit**



**Question No: 7**

***( Marks: 1 ) - Please choose one***

---

**WWW stands for:**

- ▶ **Wide World Web**

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▶ **World Wide Web**

▶ World White Web

▶ World Web Wide

**Question No: 8**

***( Marks: 1 ) - Please choose one***

---

**Supercomputers are used in:**

▶ Weather forecasting

▶ Aeroplane manufacturing

▶ Atomic bomb experiments

▶ **All of the given choices**

**Question No: 9**

***( Marks: 1 ) - Please choose one***

---

**Which one of these is NOT an example of storage devices?**

▶ Tape

▶ **RAM**

▶ Floppy

▶ DVD

**Question No: 10**

**(Marks: 1) - Please choose one**

---

**To display a checkbox on the web page, we use\_tag**

**► CHECKBOX**

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▶ CHECK

▶ INPUT

▶ INPUTBOX

**Question No: 11**

**( Marks: 1 ) - Please choose one**

Users communicate with the computer using a consistent user interface provided by the OS.

▶ True

▶ False

**Question No: 12**

**( Marks: 1 ) - Please choose one**

OO software is all about \_\_\_\_\_.

▶ Behaviors

▶ Methods

▶ Properties

▶ Objects

**Question No: 13**

***(Marks: 1) - Please choose one***

---

**Web standards are being developed by**

▶ Mozilla

▶ **Microsoft**

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▶ IBM

▶ World Wide Web Consortium

**Question No: 14**

**( Marks: 1 ) - Please choose one**

\_\_\_\_\_ are great for showing parts of a whole that are generally expressed in percentages.

▶ Line Charts

▶ Pie Charts

▶ Bar Charts

▶ None of the options described

**Question No: 15**

**( Marks: 1 ) - Please choose one**

A diode is a \_\_\_\_\_ terminal device

▶ Three

▶ Two

▶ One

▶ **None of above**

**Question No: 16**

**( Marks: 1 ) - Please choose one**

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Select the attribute of the <form> tag

▶ Method

▶ Action

▶ Value

▶ All of above

**Question No: 17**

**( Marks: 2 )**

---

Explain briefly the different techniques that are used to embed JavaScript code in a web page?

**Question No: 18 ( Marks: 2 )**

---

**What is an interpreter? Write its one benefit over compiler.**

**Question No: 19**

**( Marks: 2 )**

---

Whether response time of a



microprocessor is greater or less than that of RAM?

**Question No: 20 ( Marks: 3 )**

---

Write formula for the following expression.

- 1) **If we want to add the value from cell C3 to C10 we can write**
- 2) **If we want to add the value of C2 to the value of C4 and then multiply by C6 , the formula is written for**

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**Question No: 21**

**( Marks: 3 )**

How can we enter data in more than one line in an html form?

**Question No: 22 ( Marks: 5 )**

What is software life cycle?

**Question No: 23 ( Marks: 5 )**

**Elaborate greedy algorithm definition with solid example in favour and one counter example?**

**MIDTERM EXAMINATION**

Spring 2010

CS101- Introduction to Computing (Session - 2)

**Question No: 1 ( Marks: 1 ) - Please choose one**

**JavaScript does not support \_\_\_\_\_**

- ▶ **User interaction**
- ▶ **Graphics**
- ▶ **Network operations**
- ▶ **Both Graphics and Network operations**

**Question No: 2 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ language is very good for writing well-structured and readable programs, but it is not as flexible as the C programming language

- ▶ BASIC
- ▶ PASCAL
- ▶ JAVA
- ▶ FORTRAN

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**Question No: 3 (Marks: 1) - Please choose one**  
\_\_\_\_\_ is the example of Shrink-wrapped software

- ▶ PIA information system
- ▶ WinZip trial pack
- ▶ Linux
- ▶ **MS Word**

**Question No: 4 (Marks: 1) - Please choose one**  
\_\_\_\_\_ refers to the firmware code which is run by an IBM compatible PC when first powered on.

- ▶ DOS
- ▶ **BIOS** page 61
- ▶ Utility Program
- ▶ None of these

**Question No: 5 (Marks: 1) - Please choose one**  
RTOS stands for \_\_\_\_\_

- ▶ Real Task Operating System
- ▶ Random Time Operating System
- ▶ Rational Time Operating System
- ▶ **Real Time Operating System** page 67

**Question No: 6 (Marks: 1) - Please choose one**  
\_\_\_\_\_ is an electronic path within a Computer System along which bits are transmitted.

- ▶ Port
- ▶ Slots
- ▶ **Bus**
- ▶ Modem

**Question No: 7 (Marks: 1) - Please choose one**  
A microprocessor can be made more powerful by increasing its

- ▶ Clock frequency
- ▶ Word length
- ▶ **Clock frequency and Word length** page 318
- ▶ None of above

**Question No: 8** ( Marks: 1 ) - Please choose one

Which one of these translates the program once at a time ?

▶ Interpreter

▶ **Compiler** page 61

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- ▶ Operating system
- ▶ Translator

**Question No: 9** (Marks: 1) - Please choose one

\_\_\_\_\_ is volatile memory

- RAM page 25
- ROM
- Hard Disk
- CD ROM

**Question No: 10** (Marks: 1) - Please choose one

A British scientist named John A. Fleming made a vacuum tube known today as a diode. Then the diode was known as a "valve," Is it true?

- true page 14
- false

**Question No: 11** (Marks: 1) - Please choose one

<form> Tags always placed between the <BODY> and </BODY> tags of a Web page

- True
- False

**Question No: 12** (Marks: 1) - Please choose one

\_\_\_\_\_ is generally measured in terms of the number of steps required to execute an algorithm.

- ▶ Space
- ▶ Time page 101
- ▶ Memory and time
- ▶ Bandwidth

**Question No: 13** (Marks: 1) - Please choose one

Programs where no user interaction found during program execution are called \_\_\_\_\_.

- Batch programs
- Event-driven programs







"Every minute dies a man, And one and a sixteenth is born" said by?

□□□□□□ ▶  Alfred, Lord Tennyson

□□□□□□ ▶  Charles Babbage during lec

??????? ▶  Ada, Countess of Lovelace

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□□□□□□ ▶ **Babbage and Lord Tennyson**

**Question No: 17 ( Marks: 2 )**

**Why JavaScript is called Object-based language, why not Object-Oriented ?**

**Question No: 18 ( Marks: 2 )**

**Draw flow chart symbols for "process" and "off page connector" ?**

**Question No: 19 ( Marks: 2 )**

**How can you open a link in a new browser window?**

**Question No: 20 ( Marks: 3 )**

**List down the names of any three parameters on which we analyze an algorithm.**

**Question No: 21 ( Marks: 3 )**

**What is the difference between user requirements and development specification.**

**Question No: 22 ( Marks: 5 )**

**Which two phases of the SW lifecycle do you think are the most important and effort consuming steps? Explain with reasons.**

**Question No: 23 ( Marks: 5 )**

**Write down the algorithm for converting decimal number to binary?**

**MIDTERM EXAMINATION**

**Fall 2009**

**CS101- Introduction to Computing (Session - 1)**

Question No: 1 ( Marks: 1 ) - Please choose

one The memory size of the Altair 8800 was

- ▶ 128 bytes
- ▶ 128 Kilo bytes
- ▶ 256 Kilo bytes
- ▶ **256 bytes**

Question No: 2 ( Marks: 1 ) - Please choose

one URL is a/an \_\_\_\_\_

- ▶ Device
- ▶ Component
- ▶ **Address**
- ▶ Tool

Question No: 3 ( Marks: 1 ) - Please choose one

Which of the following hardware component of a computer can also be called as engine?

- ▶ Bus
- ▶ Storage
- ▶ Memory
- ▶ **Processor**

Question No: 4 ( Marks: 1 ) - Please choose one

The \_\_\_\_\_ Processor is specially designed for PDA?

- ▶ PowerPC
- ▶ **StrongARM**
- ▶ Crusoe
- ▶ SPARC

Question No: 5 ( Marks: 1 ) - Please choose one

There are \_\_\_\_\_ ways to represent an algorithm.

- ▶ 1
- ▶ 2
- ▶ **3**

▶ 4

**Question No: 6** (Marks: 1) - Please choose one

Which one is correct for JavaScript?

- ▶ onMouseOver
- ▶ **OnMouseOver**
- ▶ onmouseover
- ▶ All of the given

**Question No: 7** (Marks: 1) - Please choose one

\_\_\_\_\_ is a particularly good language for processing numerical data, but it does not lend itself very well to large business programs

- ▶ BASIC
- ▶ PASCAL
- ▶ JAVA
- ▶ **FORTRAN** page 131

**Question No: 8** (Marks: 1) - Please choose one

In spreadsheets, cell address **A12** means .

- ▶ Row A, Cloumn 12
- ▶ **Row 12, Cloumn A**
- ▶ Row 2, Cloumn A1
- ▶ Row A1, Cloumn 2

**Question No: 9** (Marks: 1) - Please choose one

The key feature of Scientific/Engineering/Graphics applications is

- ▶ **Intense calculations** page 81
- ▶ User-friendly
- ▶ Reliability
- ▶ Cost-effective

**Question No: 10** (Marks: 1) - Please choose one

**Command which saves the selected text before deleting is**

▶ **Copy**

▶ **Delete**

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▶ **Cut**

▶ Undo

**Question No: 11** ( Marks: 1 ) - Please choose one

---

Properties of an object are modified with

▶ Class

▶ **Methods** page 142

▶ Structures

▶ Forms

**Question No: 12** ( Marks: 1 ) - Please choose one

---

Video Card has its own -----

▶ Memory

▶ Processor

▶ **Memory & Processor**

▶ Neither memory nor Processor

**Question No: 13** ( Marks: 1 ) - Please choose one

---

Using only HTML we can create

▶ Dynamic web pages

▶ **Static web pages**

▶ Both Static and Dynamic pages

▶ None of these

**Question No: 14** ( Marks: 1 ) - Please choose one

---

Computers are good at

▶ Speed

▶ Storage

▶ **Never bored**

▶ **All of the given choices**

**Question No: 15**

**( Marks: 1 ) - Please choose one**

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---

**There is a battery on the motherboard to:**

- ▶ Give power to the processor
- ▶ **Save information when computer is off**
- ▶ Save information when computer is on
- ▶ *Give power to the motherboard*

---

Question No: 16 ( Marks: 1 ) - Please choose one

**Microsoft Word is a type of:**

- ▶ System Software
- ▶ Freeware Software
- ▶ **Shrink-Wrapped Software** page 62
- ▶ Custom-built Software

---

**Question No: 17 ( Marks: 1 ) - Please choose one**

**The set of instructions that operates various parts of hardware is called shareware.**

- ▶ True
- ▶ **False**

---

**Question No: 18 ( Marks: 1 ) - Please choose one**

Which of the following manages the HW and SW resources of the computer system?

- ▶ Hardware
- ▶ System Software
- ▶ **Operating system** page 65
- ▶ Graphics Software

---

**Question No: 19 ( Marks: 1 ) - Please choose one**

Application developers do not need to know much about the HW, especially the microProcessor, while they are developing their application.

- ▶ **True**
- ▶ False

---

**Question No: 20 ( Marks: 1 ) - Please choose one**

**Which of the following formula is used in spread sheet for addition?**

- ▶ C6+E6
- ▶ **=C6+E6**
- ▶ 6+6=12
- ▶ 6+E6

---

**Question No: 21 ( Marks: 1 ) - Please choose one**

**Web Pages developed for human as well computer understanding are**



called as;

- ▶ **Static Web Pages**
- ▶ **Semantic Web Pages**
- ▶ **Dynamic Web Pages**
- ▶ **Java Web Pages**

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**Question No: 22** (Marks: 1) - Please choose one

Programs where no user interaction found during program execution are called \_\_\_\_\_.

- ▶ **Batch program** page 129
- ▶ Event-driven programs
- ▶ Graphics based programs
- ▶ None of the given

**Question No: 23** (Marks: 1) - Please choose one

In \_\_\_\_\_, the software developer decomposes the problem into subsystems \_\_\_\_\_ and defines their relationships.

- ▶ Detailed Design
- ▶ Integration Testing
- ▶ **Design** page 137
- ▶ Architecture

**Question No: 24** (Marks: 1) -  
Please choose one

A diode functions as the electronic version of a \_\_\_\_\_ -way valve.

**one** page 32

two

three

four

**Question No: 25** (Marks: 1) -  
Please choose one

What is the key feature of computer which is against human nature?

- ▶ **Can't get bored.**
- ▶ Pattern recognition
- ▶ Repetition
- ▶ None

**Question No: 26** ( Marks: 1 ) - Please choose one

The first -----was invented at Bell Laboratories on December 16, 1947 by William Shockley.

- ▶ Transistor page 14
- ▶ Vacuum Tube
- ▶ Punch card

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► Transmitter

**Question No: 27 ( Marks: 1 )**

---

**What is the Brute Force Strategy?**

**Answer:.** A strategy in which all possible combinations are examined and best among them is selected. Brute force (also known as brute force cracking) is a trial and error method used by application programs to decode encrypted data such as passwords or Data Encryption Standard (DES) keys, through exhaustive effort (using brute force) rather than employing intellectual strategies.

Question No: 28 ( Marks: 1 )

**What is java script?**

**Answer:** JavaScript is an object-oriented scripting language used to enable programmatic access to objects within both the client application and other applications.

It is primarily used in the form of client-side JavaScript, implemented as an integrated component of the web browser, allowing the development of enhanced user interfaces and dynamic websites

Question No: 29 ( Marks: 2 )

---

**How can you explain control unit?**

**Answer:** Control unit is a computerized part of the speech processor. Most of the controls, such as program, volume and sensitivity, are located on the control unit.

Question No: 30 ( Marks: 3 )

---

**How a designer makes Structured Design?**

**Answer:** Structured Design: Materials and member type, size, and configuration to carry loads in a safe and serviceable fashion.

In general, structural design implies the engineering of stationary objects such as buildings and bridges, or objects that may be mobile but have a rigid shape such as ship hulls and aircraft frames. Structural design involves at least five distinct phases of work, project requirements, materials, structural scheme, analysis, and design. It is insufficient in most cases, for the designer to consider a solution, a design. He should evaluate several alternate designs and choose the best in the sense of maximizing such technical objectives as efficiency, reliability, and maintainability while satisfying such design constraints as memory size and response time.

Question No: 31 ( Marks: 5 )

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---

**What is Turing machine? Who invented it and also explain how a Turing test is conducted?**

***Answer: A Turing machine is a theoretical device that manipulates symbols contained on a strip of tape. Despite its simplicity, a Turing machine can be adapted to simulate the logic of any computer algorithm, and is particularly useful in explaining the functions of a CPU inside of a computer. The "Turing" machine was designed by Alan Turing in 1937.***

The Turing test is a proposal for a test of a machine's ability to demonstrate intelligence. It proceeds as follows a human judge engages in a natural language conversation with one human and one machine, each of which tries to appear human. All participants are placed in isolated locations. If the judge cannot reliably tell the machine from the human, the machine is said to have passed the test. In order to test the machine's intelligence rather than its ability to render words into audio, the conversation is limited to a text-only channel such as a computer keyboard and screen.

If a computer pass the test ,we can say that a machine can think.

Question No: 32 ( Marks: 5 )

---

**What are JavaScript literal and what are its types?**

***Answer: The raw data that make up the root of data types are called "literals." These are, in effect, literally what they represent themselves to be. Numbers, strings, and Boolean values make up the core set of literals in JavaScript. Little mystery exists with literals, but important differences exist between them. In JavaScript, data types include strings, which are simply quoted characters, numbers, Boolean, Objects and even a type which has no value at all, Null. Since JavaScript is a loosely typed language, you don't necessarily need to know what type of data every value is (although it certainly helps).***

Every piece of data in these categories is known as a value. When a value is referred to outright in a statement, it is called a literal value. For the same reason people are identified by names as opposed to "human" or "person", literal values can be named in order to make repeated reference to them practical, efficient and readable. These names are called variables.

Literals can be of several types. Some of them are:

Array Literals

Boolean Literals

Floating-Point

Literals Integers

Object Literals

String Literals

## MIDTERM EXAMINATION

Fall 2009

CS101- Introduction to Computing (Session - 2)

Time: 60 min

Marks: 43

Question No: 1 ( Marks: 1 ) - Please choose one

Vacuum tubes were replaced by transistors

- ▶ Punch cards
- ▶ **Transistors**
- ▶ Micro Processors
- ▶ Resistors

Question No: 2 ( Marks: 1 ) - Please choose one

Today's computers are based on the technology of transistors

- ▶ Punch cards

- ▶ Vacuum tubes
- ▶ **Transistors**
- ▶ Resistors

**Question No: 3**

**( Marks: 1 ) - Please choose one**

Browser is a \_\_\_\_\_ none of the given choices \_\_\_\_\_ used for browsing.

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- ▶ Tool
- ▶ Component
- ▶ Device

▶ **None of the given choices**

**Question No: 4 ( Marks: 1 ) - Please choose one**

It represents the \_\_\_\_\_ input or output \_\_\_\_\_ flow chart element.

- ▶ Process

▶ **Input or Output**

- ▶ Decision
- ▶ Connector

**Question No: 5 ( Marks: 1 ) - Please choose one**

Which of the following number system is used by microprocessor? Binary

▶ **Binary**

- ▶ Decimal
- ▶ Octal
- ▶ Hexadecimal

**Question No: 6 ( Marks: 1 ) - Please choose one**

Hexadecimal number system is based on -----16----- digits

- ▶ 2
- ▶ 8
- ▶ 12
- ▶ 16

**Question No: 7** ( Marks: 1 ) - Please choose one

Java script interact with user through \_\_\_\_\_ Event handlers \_\_\_\_\_

- ▶ Special control
- ▶ Internet explorer
- ▶ **Event handlers**
- ▶ Java script does not interact with user

**Question No: 8** ( Marks: 1 ) - Please choose one

Programs that are typically started from a shell (or automatically via a scheduler) are called **Batch programs**

- ▶ **Batch programs**
- ▶ Event-driven programs
- ▶ Sequential programs
- ▶ Application programs

**Question No: 9** ( Marks: 1 ) - Please choose one

A new cell using HTML is added in table row by `<TD>..</TD>`

▶ <TC>...</TC>

▶ <TR>...</TR>

▶ **<TD>...</TD>**

▶ <NC>...</NC>

**Question No: 10** ( Marks: 1 ) - Please choose one

Waterfall is a sequential\_\_\_\_\_life-cycle model.

▶ Spiral

▶ **Sequential**

▶ Circular

▶ Spherical

**Question No: 11** ( Marks: 1 ) - Please choose one

What will be the result of the following formula in Spreadsheet application ?

SUM(A2:A3) = \_\_\_\_\_ 100 (Assume that A2 = 25 A3 = 75)

▶ 25

▶ 50

▶ 75

▶ **100**

**Question No: 12**  
**one**

**( Marks: 1 )**

**- Please choose**

A \_\_\_\_\_ multi user \_\_\_\_\_ operating system allows many users to take advantage of the computer's resources, simultaneously

- ▶ Single user
- ▶ **Multi- user**
- ▶ Single tasking
- ▶ Multi tasking

**Question No: 13**  
**one**

**( Marks: 1 )**

**- Please choose**

When we use `<INPUT type="password">`, what will happen? **Text will be in \*\*\*\* format**

- ▶ Text will not be visible
- ▶ Text will be in normal format
- ▶ **Text will be in \*\*\*\* format**
- ▶ Text will be in ##### format

**Question No: 14** ( Marks: 1 ) - Please choose one

The world first computer program was written to compute: bernoulli's sequence

- ▶ Simple sequence
- ▶ Multiple sequence
- ▶ **Bernoulli's sequence**
- ▶ Increasing sequence

**Question No: 15** ( Marks: 1 ) - Please choose one

The first Web browser with a GUI was generally available in: 1993

- ▶ 1992
- ▶ **1993**
- ▶ 1994
- ▶ 1995

**Question No: 16** ( Marks: 1 ) - Please choose one

ASCII WHITE is the fastest Super computer which can perform 1.3 trillion  
\_\_\_\_\_ calculations in one second.

- ▶ 1.3 billion
- ▶ **1.3 trillion**
- ▶ 1.3 million
- ▶ 1.3 thousand

**Question No: 17** ( Marks: 1 ) - Please choose one

Monitor is an example of: output device

- ▶ Input Device
- ▶ Processing Device
- ▶ **Output Device**
- ▶ Storage Device

**Question No: 18** ( Marks: 1 ) - Please choose one

Forms can be submitted through \_\_\_\_\_get\_\_\_ & post\_\_\_\_\_methods

- ▶ INCLUDE, POST
- ▶ INCLUDE, GET
- ▶ **GET, POST**
- ▶ SEND, POST

**Question No: 19** ( Marks: 1 ) - Please choose one

\_\_\_\_\_kernel\_\_\_\_\_is responsible for all the essential operations like basic house keeping, task scheduling, etc. Also contains low-level HW interfaces

- ▶ Hardware
- ▶ Device Manager
- ▶ **Kernel**
- ▶ Device Driver

**Question No: 20** ( Marks: 1 ) - Please choose one

Which of the following is NOT an Application Software. Windows XP

- ▶ Word Processor

- ▶ Web Browser

▶ **Windows XP**

- ▶ MS Excel

**Question No: 21** ( Marks: 1 ) - Please choose one

Bit-mapped graphics is also known as \_\_\_\_\_ raster \_\_\_\_\_ graphics

- ▶ Vector

▶ **Raster**

- ▶ Scalar

- ▶ Simple

**Question No: 22** ( Marks: 1 ) - Please choose one

A set of stand alone productivity applications designed to work together known as \_  
Productivity software suites\_\_\_\_\_.

▶ **Productivity software suites**

- ▶ Compiled software

- ▶ Secure software

- ▶ Intelligent software

**Question No: 23** ( Marks: 1 ) - Please choose one

\_\_\_\_\_semicolon\_\_\_\_\_is used to terminate all JavaScript statements.

- ▶ Colon
- ▶ **Semicolon**
- ▶ Underscore
- ▶ Apostrophe

**Question No: 24** ( Marks: 1 ) - Please choose one

By today's standards, the Mark-I was slow and requiring 3 to 5 seconds for a multiplication operation. True

- ▶ **True**
- ▶ False

**Question No: 25** ( Marks: 1 ) - Please choose one

There are \_\_\_\_\_NO Standard\_\_\_\_\_rules to write the Pseudo Code.

- ▶ Standard
- ▶ **No standard**
- ▶ Pre-defined
- ▶ Strict

**Question No: 26** ( Marks: 1 ) - Please choose one



In flow charts, there is only one entry point in conditions while there is/are \_\_\_\_\_2\_\_\_\_\_ exit points.

▶ 1

▶ 2

▶ 3

▶ 4

**Question No: 27 ( Marks: 1 )**

Define URL

**URL(Uniform resource locator)**

URL (Uniform Resource Locator, previously Universal Resource Locator) - is the address of a file (resource) accessible on the Internet. The type of file or resource depends on the Internet application protocol.

Examples of URLs: <http://vu.edu.pk>

<http://www.yahoo.com>

**Question No: 28 ( Marks: 1 )**

What is Randomized Algorithm?

**Randomized Algorithm:**

Any algorithm whose behavior is not only determined by the input, but also values produced by a random number generator

These algorithms are often simpler and more efficient than deterministic algorithms for the same problem. And because of their simplicity they are easier

to analyze which is the most important thing in the decision making of an algorithm.

**Question No: 29 ( Marks: 2 )**

**What was the name of first super computer. When it was introduced?**

CRAY1 is the first computer and it was introduced in 1973

**Question No: 30 ( Marks: 3 )**

How a designer makes Structured Design?

**Structured Design** is known as a Top-down design.

The designer first conceives about the High level design and then further designs the details of the high level design components and it goes on and on.

Making small changes in the functionality of the systems sometimes leads to major re-design exercise. Structured design separates the functionality from programs data and that's why program's designed by this methodology are difficult to maintain.

**Question No: 31 ( Marks: 5 )**

Why microprocessor uses the binary number system and not the decimal or any other number system?

The processor is the logic of a computer and functions comparably to a human central nervous system, directing signals from one component to another and enabling everything to happen. A microprocessor is made from miniaturized transistors and other circuit elements on a single

semiconductor integrated circuit (IC) . These are made up of semiconductor and silicon.

Microprocessors are composed of components which have only two states either 0 or 1. Binary number system is also composed of these two states.

Microprocessor till today only understand the machine language and machine language is only based on binary number system. Even today's 64 bit microprocessors are also based on this technology.

**Question No: 32 ( Marks: 5 )**

Why do we need an Interactive Form in a webpage?

1. Interactive forms are used to gather user data and interact with the user.
  2. Forms can be made interactive with the use of client side scripting and server side scripting.
  3. In HTML, <FORM> </FORM> tag is used to insert the form in a web page and it always lie in <BODY></BODY> html tag.
  4. without form's web site is only "READ ONLY".
  5. with the help of forms a user can search the contents, place order for goods and services.
  6. Forms can be simple or very complex, based on the requirement.
- forms can contain a single element or many e.g text area, buttons

**MIDTERM EXAMINATION**

**Spring 2009**

**CS101- Introduction to Computing (Session - 7)**

**Question No: 1 ( Marks: 1 )- Please choose one Cray-1 was first commercial \_\_\_\_\_ computer**

- ▶ Super
- ▶ Mini
- ▶ Micro
- ▶ Personal

**Question No: 2 ( Marks: 1 ) -  
Please choose one Browser is a \_\_\_\_\_  
used for  
browsing.**

- ▶ Tool
- ▶ Component
- ▶ Device

- ▶ **None of the given choices**

**Question No: 3** (Marks: 1) -

**Please choose one**

**It represents the \_\_\_\_\_ flow chart element.**

- ▶ **Flow Line**
- ▶ **Connector**
- ▶ **Off-page connector**
- ▶ **Start or Stop**

**Question No: 4** (Marks: 1) -

**Please choose one**

**JavaScript is an example of**

\_\_\_\_\_ **language**

.

- ▶ **Object-based**
- ▶ **Object-oriented**
- ▶ **Machine**
- ▶ **Assembly**

**Question No: 5** (Marks: 1) -

**Please choose one**

**The set of rules and guidelines a team of developers follow to construct reasonably complex SW systems is called**

- ▶ **Object Oriented Design**
- ▶ **Object Oriented Software**
- ▶ **Design Methodology**
- ▶ **Programming language**

**Question No: 6** (Marks: 1) - Please choose one  
Waterfall is a \_\_\_\_\_ life-cycle model.

- ▶ **Spiral**
- ▶ **Sequential**
- ▶ **Circular**
- ▶ **Spherical**

**Question No: 7** (Marks: 1) - Please choose one

What happens if I start a new list without closing the original one?

- ▶ An error will be generated
- ▶ A nested list will be created
- ▶ Previous list will end and a new will start.
- ▶ Nothing will happen

**Question No: 8** (Marks: 1) - Please choose one  
In Spreadsheets, you can create a relationship between two cells by using \_\_\_\_\_.

- ▶ **Numbers**
- ▶ **Text**
- ▶ **Formulas**
- ▶ **None of the given choices**

**Question No: 9** (Marks: 1) - Please choose one  
VisiCalc was the first popular \_\_\_\_\_ application on PC's.

- ▶ **Spreadsheet**
- ▶ **Word processor**
- ▶ **Presentation**
- ▶ **Database**

**Question No: 10** (Marks: 1) - Please choose one  
Fins are used to -----

- ▶ **Communicate with microprocessor**
- ▶ **Increase surface area of Fan**

- ▶ **Decrease surface area of Fan**
- ▶ **Speed up the Fan.**

**Question No: 11** ( Marks: 1 ) - Please choose one  
**Using only HTML we can create**

- ▶ **Dynamic web pages**

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- ▶ *Static web pages*
- ▶ **Both Static and Dynamic pages**
- ▶ **None of these**

**Question No: 12** (Marks: 1) - Please choose one  
**Everything that JavaScript manipulates is treated as:**

- ▶ Object
- ▶ Window
- ▶ Text
- ▶ Script

**Question No: 13** (Marks: 1) - Please choose one  
**The \_\_\_\_\_ is connected to all other modules of the microprocessor.**

- ▶ *Control unit*
- ▶ **Memory unit**
- ▶ **Floating Point unit**
- ▶ **Arithmetic and Logic unit**

**Question No: 14** (Marks: 1) - Please choose one  
**Communication protocol is a \_\_\_\_\_ that governs the flow of information over a network**

- ▶ **Set of protocols**
- ▶ *Set of rules*
- ▶ **Device**
- ▶ Set of methods

**Question No: 15** (Marks: 1) - Please choose one  
**\_\_\_\_\_ is the interface in computer that supports transmission of multiple bits at the same time.**

- ▶ Serial Port
- ▶ **Parallel Port**
- ▶ Universal Serial Bus
- ▶ None of the given choices

**Question No: 16** (Marks: 1) - Please choose one

\_\_\_\_\_ was designed as a replacement for typewriter  
▶ Spreadsheet Software

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▶ **Word Processor Software**

- ▶ Presentation Software
- ▶ Database Software

**Question No: 17** ( Marks: 1 ) - Please choose one

Which one of these translates the program once at a time ?

- ▶ Interpreter
- ▶ **Compiler**
- ▶ Operating system
- ▶ Translator

**Question No: 18** ( Marks: 1 ) - Please choose one

Randomized algorithms are often \_\_\_\_\_ than deterministic algorithms for the same problem.

- ▶ Simpler and more slow
- ▶ **Simpler and more efficient**
- ▶ Complex and more efficient
- ▶ Complex and more slow

**Question No: 19** ( Marks: 1 ) - Please choose one

Ada written a computer programme for ?

- ▶ **Analytical Engine**
- ▶ Difference Engine
- ▶ Harvard Mark 1
- ▶ Mechanical engine

**Question No: 20** ( Marks: 1 ) - Please choose one

A test proposed to determine if a computer has the ability to think. It is called?

- ▶ **Turing test**
- ▶ Turning test
- ▶ Intelligence test
- ▶ None

**Question No: 21** ( Marks: 1 ) - Please choose one

The most used form tag is the <input> tag.

- ▶ True
- ▶ False

**Question No: 22** ( Marks: 1 ) - Please choose one

When the user clicks on the "Submit" button, the content of the form is sent to the server.

- ▶ True
- ▶ False

**Question No: 23** ( Marks: 1 ) - Please choose one

Extension for saving web page is / are;

- ▶ \*.html
- ▶ \*.htm
- ▶ \*.html and \*.htm both are in use
- ▶ None of These

**Question No: 24** ( Marks: 1 ) - Please choose one

In spread sheet a cell may contain

- ▶ Numbers
- ▶ Text
- ▶ Formulas
- ▶ All of the given

**Question No: 25** ( Marks: 1 ) - Please choose one

Programs where no user interaction found during program execution are called

\_\_\_\_\_.

- ▶ **Batch programs**
- ▶ Event-driven programs
- ▶ Graphics based programs
- ▶ None of the given

**Question No: 26** ( Marks: 1 ) - Please choose one

OO software is all about\_\_\_\_\_.

- ▶ Behaviors
- ▶ Methods
- ▶ Properties
- ▶ **Objects**

**Question No: 27 (Marks: 1)**

What is the key feature of batch programs?

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***Batch files are useful for running a sequence of executables automatically Question No: 28 ( Marks: 1 )***

Name two languages which are used for client side scripting?

**JAVASCRIPT /NETSCAPE**

**Question No: 29 ( Marks: 2 )**

**What is the purpose of MODEM ?**

**THE PURPOSE OF MODEM IS MODULATE AND DEMODULATE THE ELECTRONIC ANALOG PULSES OF THE COMPUTER TO PULSES THE PHONE SYSTEM M CAN HANDLE.**

**Question No: 30 ( Marks: 3 )**

What is Home Page of a web site?

***The pages of a website can usually be accessed from a simple Uniform Resource Locator (URL) called the homepage. The URLs of the pages organize them into a hierarchy, although hyper linking between them conveys the reader's perceived site structure and guides the reader's navigation of the sit***

**Question No: 31 ( Marks: 5 )**

Why microprocessor uses the binary number system and not the decimal or any other number system?

***At this point in computer science we only have two 'digital' states, which is that any bit can only be either on or off.***

**The on/off is commonly used to represent yes/no.(On(1) = Yes, Off(0) = No)**

**A microprocessor can only see if a signal is there or is missing, in other words, if the signal is on or off, or a bit is a 1 or a 0.**

**Question No: 32 ( Marks: 5 )**

What is the difference between Interactive-mode and Batch-mode Application Software?

**Batch files are useful for running a sequence of executables automatically and are often used by system administrators to automate tedious processes while interactive mode applications attract the attention of user this kind of applications can not execute until User have interest to execute and complete the process.**

## **MIDTERM EXAMINATION**

**Fall 2008**

**CS101- Introduction to Computing (Session - 1)**

**Question No: 1 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ consists of cells arranged in rows & columns

- ▶ **Spreadsheets Software**
- ▶ **Word processor**
- ▶ **Presentation Software**
- ▶ **Microsoft Paint Software**

**Question No: 2 ( Marks: 1 ) - Please choose one**

\_\_\_\_\_ manages the HW and SW resources ( memory, disk drives etc) of the computer system, often invisibly.

- ▶ **Explorer.exe**
- ▶ **System Files**
- ▶ **Operating System**
- ▶ **Application Software**

**Question No: 3 ( Marks: 1 ) - Please choose one**

Forms can be submitted \_\_\_\_\_ & \_\_\_\_\_ methods through

- ▶ **INCLUDE, POST**
- ▶ **INCLUDE, GET**
- ▶ **GET, POST**
- ▶ **SEND, POST**

**Question No: 4 ( Marks: 1 ) - Please choose one**

To display a checkbox on the web page, \_\_ tag we use \_

- ▶ **CHECKBOX**
- ▶ **CHECK**
- ▶ **INPUT**
  
- ▶ **INPUTBOX**

**Question No: 5** (Marks: 1) - Please choose one

You can \_\_\_\_\_ from/to a website containing interactive forms.

- ▶ Only read
- ▶ Only write
- ▶ *Read and write*
- ▶ Not read and write

**Question No: 6** (Marks: 1) - Please choose one

There is a battery on the motherboard to:

- ▶ Give power to the processor

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- ▶ *Save information when computer is off*
- ▶ **Save information when computer is on**
- ▶ **Give power to the motherboard**

**Question No: 7** (Marks: 1) -

*Please choose one*

We can change the background color in HTML, using

\_\_\_\_\_ attribute of <body>

- ▶ **background**
- ▶ bgcolor
- ▶ **backcolor**
- ▶ **backgroundcolor**

**Question No: 8** (Marks: 1) - *Please choose one*

\_\_\_\_\_ contains the name of the protocol required to access the resource, a domain name that identifies a specific computer on the internet and a pathname on the computer

- ▶ HTML
- ▶ HTTP
- ▶ URL
- ▶ WWW

**Question No: 9** (Marks: 1) - *Please choose one*

\_\_\_\_\_ is a client program that uses HTTP to make requests to Web servers throughout the internet on behalf of the user.

- ▶ Web Application
- ▶ *Web Browser*
- ▶ Internet Application
- ▶ HTML

**Question No: 10** (Marks: 1) - *Please choose one*

WWW stands for:

- ▶ *Wide World Web*
- ▶ World Wide Web
- ▶ World White Web
- ▶ World Web Wide

**Question No: 11** ( Marks: 1 ) - Please choose one

---

**The weaknesses of the computer are:**

- ▶ **Pattern recognition & Storage**
- ▶ **Speed & Innovative ideas**
- ▶ ***Pattern recognition & Innovative ideas***
- ▶ **Speed & Storage**

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**Question No: 12** ( Marks: 1 ) - Please choose one

---

**Floating point unit is also known as \_\_\_\_\_ unit**

- ▶ Real
- ▶ Integer
- ▶ Numeric
- ▶ Fractional

**Question No: 13** ( Marks: 1 ) - Please choose one

---

**Programs that reside on Web servers and receive info that a user enters in a form, are known as:**

- ▶ *Server-Side Scripts*
- ▶ Client-Side Scripts
- ▶ Super Scripts
- ▶ Form Scripts

**Question No: 14** ( Marks: 1 ) - Please choose one

---

**----- is volatile memory**

- ▶ RAM
- ▶ ROM
- ▶ Hard Disk
- ▶ CD ROM

**Question No: 15** ( Marks: 1 ) - Please choose one

---

**What will be the result of the following formula in Spreadsheet application ? SUM(A2:A3) = \_\_ (Assume that A2 = 25 A3 = 75)**

- ▶ 25
- ▶ 50
- ▶ 75
- ▶ 100

**Question No: 16** ( Marks: 1 ) - Please choose one

---

**VisiCalc was the first popular application on PC's.**

- ▶ ***Spreadsheet***
- ▶ **Word processor**
- ▶ **Presentation**
- ▶ **Database**

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**Question No: 17** ( Marks: 1 ) - Please choose one

\_\_\_\_\_ is a system software that converts the source code written in high level language into machine language code.

- ▶ Utilities
- ▶ Drivers
- ▶ *Language Translator*
- ▶ None of the these

**Question No: 18** ( Marks: 1 ) - Please choose one

What happens if I start a new list without closing the original one?

- ▶ An error will be generated
- ▶ A nested list will be created
- ▶ Previous list will end and a new will start.
- ▶ Nothing will happen

**Question No: 19** ( Marks: 1 ) - Please choose one

\_\_\_\_\_ is a program that executes instructions line by line written in a high-level language.

- ▶ *Interpreter*
- ▶ Compiler
- ▶ Predictor
- ▶ Executor

**Question No: 20** ( Marks: 1 ) - Please choose one

There are \_\_\_\_\_ rules to write the Pseudo Code.

- ▶ Standard
- ▶ *No standard*
- ▶ Strict
- ▶ Pre-defined

**Question No: 21** ( Marks: 1 ) - Please choose one

Which one is not the building block of an algorithm?

- ▶ **Statements**
- ▶ **Sequences**
- ▶ **Repetitions**
- ▶ **Conditionals**

**Question No: 22** ( Marks: 1 ) - Please choose one

**In flow charts, there is only one entry point in conditions \_\_\_\_\_ while there is/are exit points.**

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- ▶ 1
- ▶ 2
- ▶ 3
- ▶ 4

**Question No: 23 (Marks: 1) - Please choose one**

**A procedure that usually but not always works or that gives nearly the right answer is called\_\_\_\_\_**

- ▶ **Deterministic Algorithm**
- ▶ **Heuristic Algorithm**
- ▶ **Greedy Algorithm**
- ▶ **Randomized Algorithm**

**Question No: 24 (Marks: 1) -**

**Please choose one A Modem is a kind of \_\_\_\_\_**

- ▶ **Input device**
- ▶ **Output device**
- ▶ **Storage device**
- ▶ **Input and Output device**

**Question No: 25 (Marks: 1) - Please choose**

**one The memory size of the Altair 8800 was**

- ▶ **128 bytes**
- ▶ **128 Kilo bytes**
- ▶ **256 Kilo bytes**
- ▶ **256 bytes**

**Question No: 26 (Marks: 1) - Please choose one**

**----- was known as "mill" in Analytical engine.**

- ▶ **Memory**
- ▶ **Processor**
- ▶ **Monitor**
- ▶ **Mouse**

**Question No: 27 (Marks: 1)**

**What is the key feature of object-oriented design?**

**ANSWER: The key feature of object-oriented design is that it treats every thing as object having properties and methods. These objects are separately treated and designed and once designed it can be used in any other system. So once designed can be used many times.**

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**Question No: 28 ( Marks: 1 )****Write one purpose of using spreadsheets ?****ANSWERS: Purpose of spreadsheets is that it can do calculations on data accurately.****Question No: 29 ( Marks: 2 )****List down two advantages of writing Pseudo Code****Answers: The advantages of pseudo code are:**

- **It is quite similar to human language so easy to understand.**
- **It is close to real code so easy to write real code from it.**

**Question No: 30 ( Marks: 3 )****How can we calculate total number of rows in the truth table?****ANSWER: The formula for calculating number of rows in truth table is  $2^n$   
Where n = number of inputs****Question No: 31 ( Marks: 5 )****Differentiate between Vector graphics and Bit-mapped graphics.****ANSWER:**

VECTOR GRAPHICS	BIT MAPPED IMAGES
1. Treat everything as an object	1. Treats everything as a bit map.
2. Is resolution independent	2. Resolution dependent

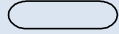
**Question No: 32 ( Marks: 5 )****Write differences between Shareware and trail ware software.****ANSWER:**

<b>SHAREWARE</b>	<b>TRIALWARE</b>
<ol style="list-style-type: none"><li>1. These are shared freely.</li><li>2. It is given without payment ahead of time.</li></ol>	<ol style="list-style-type: none"><li>1. Software is offered for a trial period.</li><li>2. When the period is expired it is no</li></ol>

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**MIDTERM EXAMINATION****Fall 2008****CS101- Introduction to Computing (Session - 2)**

**Question No: 1 (Marks: 1) - Please choose one**

---

**It represents the \_\_\_\_\_ flow chart element.**

- ▶ **Flow Line**
- ▶ **Connector**
- ▶ **Off-page connector**
- ▶ **Start or Stop**

**Question No: 2 (Marks: 1) - Please choose one**

---

**What is NOT a key factor while designing a website?**

- ▶ **Usability**
- ▶ **User-friendly**
- ▶ **Consistency**
- ▶ **Complexity**

**Question No: 3 (Marks: 1) - Please choose one**

---

**% of the users have left websites in frustration due to poor navigation.**

- ▶ **40**
- ▶ **62**
- ▶ **83**
- ▶ **91**

**Question No: 4 (Marks: 1) - Please choose one**

---

**In JavaScript, a variable declaration is**

- ▶ **Optional**
- ▶ **Mandatory**
- ▶ **Not allowed**
- ▶ **None of the given**

**Question No: 5 (Marks: 1) - Please choose one**

---

A protocol used for receiving email messages is called .

- ▶ URL
- ▶ Telnet
- ▶ **POP3**
- ▶ SMTP

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**Question No: 6** (Marks: 1) - Please choose one  
Which is correct?

- ▶ OnUnload
- ▶ onUnLoad
- ▶ onUNLOAD
- ▶ All of the above

**Question No: 7** (Marks: 1) - Please choose one  
Serial arrangement in which things follow logical order or a recurrent pattern, such as statements executing one by one, is called \_.

- ▶ Loop
- ▶ Sequence
- ▶ Condition
- ▶ Array

**Question No: 8** (Marks: 1) - Please choose one  
Variables allow us to manipulate data through the \_.

- ▶ Actual Value
- ▶ Reference
- ▶ Length
- ▶ Name

**Question No: 9** (Marks: 1) - Please choose one  
Fuzzy logic is based on \_\_\_\_\_.

- ▶ Ground facts
- ▶ Experience
- ▶ Practice
- ▶ Approximation

**Question No: 10** (Marks: 1) - Please choose one  
Word Processor is a \_\_\_\_\_.

▶ **System Software**

▶ **Application Software**

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▶ **Device**

▶ **Utility**

**Question No: 11** (Marks: 1) - Please choose one

In the old days, databases did **NOT** support \_\_\_\_\_.

- ▶ **Number**
- ▶ **Boolean**
- ▶ **Video**
- ▶ **Text**

**Question No: 12** (Marks: 1) -

Please choose one

In tabular storage, fields placed in a particular row are strongly \_\_\_\_\_.

- ▶ **Independent**
- ▶ **Dependent**
- ▶ **Interrelated**
- ▶ **Inconsistent**

**Question No: 13** (Marks: 1) - Please choose one \_\_\_\_\_ **professional**

Due to working at home, lack of interaction may result in \_\_\_\_\_ **nal** growth.

- ▶ **Slower**
- ▶ **Faster**
- ▶ **Higher**
- ▶ **Improved**

**Question No: 14** (Marks: 1) - Please choose one

Distance learning has got a boost due to the \_\_\_\_\_.

- ▶ **Easy communication**
- ▶ **Online interactive contents**
- ▶ **Flexibility**
- ▶ **All of the given options**

**Question No: 15** (Marks: 1) - Please choose one

\_\_\_\_\_ technique can be used to create smooth animations or to display one of several images based on the requirement.

- ▶ **Image downloading**
- ▶ **Image preloading**
- ▶ **Image uploading**

► **Image postloading**

***Question No: 16 (Marks: 1) - Please choose one***

**The \_\_\_\_\_ is becoming the preferred organizational structure for more and more organizations with the passage of time.**

- **Tree structured organizational model**

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- ▶ **Network paradigm**
- ▶ Hierarchical structure
- ▶ None of the given options

**Question No: 17** (Marks: 1) - Please choose one

The group of technologies concerned with the capturing, processing and transmission of information in the digital electronic form is called \_\_\_\_\_.

- ▶ Telecom Engineering
- ▶ Computer Engineering
- ▶ Computer Science
- ▶ **Information Technology**

**Question No: 18** (Marks: 1) - Please choose one

A large number of networks interconnected physically are called \_\_\_\_\_.

- ▶ **LAN**
- ▶ MAN
- ▶ Internet
- ▶ Network collection

**Question No: 19** (Marks: 1) - Please choose one

TCP stands for \_\_\_\_\_.

- ▶ Transfer Center protocol
- ▶ **Transmission Control Protocol**
- ▶ Transmission Center Protocol
- ▶ Telephone Center Protocol

**Question No: 20** (Marks: 1) - Please choose one

A collection of data organized in such a way that the computer can quickly search for a desired data item is known as:

- ▶ Retrieving
- ▶ **Database**
- ▶ Information
- ▶ DBMS

**Question No: 21** (Marks: 1) - Please choose one

\_\_\_\_\_ is simply a fast port that lets you connect computer peripherals and consumer electronics to your computer without restart.

- ▶ Freeware
- ▶ Shareware
- ▶ **Firewire**
- ▶ Firmware

**Question No: 22** (Marks: 1) - Please choose one

**Structures, in which another list starts before the first list is finished, are called:**

- ▶ **Multiple Lists**

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- ▶ **Nested Lists**
- ▶ **Ordered Lists**
- ▶ **Un-ordered Lists**

**Question No: 23** (Marks: 1) - Please choose one

---

The key property of the 'Array' object in JavaScript is

- ▶ Value
- ▶ **Length**
- ▶ Name
- ▶ All of the given choices

**Question No: 24** (Marks: 1) - Please choose one

---

Which one is the example of spreadsheet software?

- ▶ MS Word
- ▶ MS PowerPoint
- ▶ **MS Excel**
- ▶ MS Access

**Question No: 25** (Marks: 1) - Please choose one

---

The Encryption of data is related to

- ▶ Data updates
- ▶ **Data security**
- ▶ Data integrity
- ▶ Data accessibility

**Question No: 26** (Marks: 1) - Please choose one

---

\_\_\_\_\_ is the process of analyzing large databases to identify patterns.

- ▶ Data normalization
- ▶ Data management
- ▶ **Data Mining**
- ▶ None of the given options

## **MiD Term Solved Long Question 2008 to 2011**

Q27

What is the problem with Brute Force Strategy approach?

**Solution:-**

Doesn't scale well with the size of the problem

Q28

What is software design methodology?

**Solution:-**

The set of (often flexible) rules and guidelines a team of developers follow to construct reasonably complex SW systems

Q29

What is the name of HTML tag, that has Href attribute and What is the Purpose of Href?

**Solution:-**

`<A HREF = "action" > label </A>`

It is used to to create Links between pages, or we can used it as "mailto" function.

Q30

Write three characteristics of JavaScript.

**Solution:-**

- (1) JavaScript has numerous operators, classified in many categories.
- (2) Terminate all JavaScript statements with a semicolon. It is not always necessary, but highly recommended.
- (3) JavaScript ignores any extra white spaces or line breaks that you put in the code
- (4) Although JavaScript allows variable declaration, it does not require it - except in the case when
- (5)

Q31

Give reasons why we need semantic web?

**Solution:-**

Whereas, today's Web's content is designed for humans to read; the Semantic Web's content will be designed for computers to understand meaningfully. However, the

Semantic Web is not a replacement but an extension of the present Web, in which info is given well defined meaning

Q32

What are the two key features of UNDO command in MS-Excel ?

**Solution:-**

1. Allows you to recover from your mistakes
  2. Allows you to experiment without risk
-

**Question No: 27 ( Marks: 1 )**

---

What is the Brute Force Strategy?

**Answer: A strategy in which all possible combinations are examined and best among them is selected. Brute force (also known as brute force cracking) is a trial and error method used by application programs to decode encrypted data such as passwords or Data Encryption Standard (DES) keys, through exhaustive effort (using brute force) rather than employing intellectual strategies.**

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**It is primarily used in the form of client-side JavaScript, implemented as an integrated component of the web browser, allowing the development of enhanced user interfaces and dynamic websites**

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How can you explain control unit?

**Answer: Control unit is a computerized part of the speech processor. Most of the controls, such as program, volume and sensitivity, are located on the control unit.**

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**It is insufficient in most cases, for the designer to consider a solution, a design. He should evaluate several alternate designs and choose the best in the sense of maximizing such technical objectives as efficiency, reliability, and maintainability while satisfying such design constraints as memory size and response time.**

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**If a computer pass the test ,we can say that a machine can think.**

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**Answer:** The raw data that make up the root of data types are called "literals." These are, in effect, literally what they represent themselves to be. Numbers, strings, and Boolean values make up the core set of literals in JavaScript. Little mystery exists with literals, but important differences exist between them. In JavaScript, data types include strings, which are simply quoted characters, numbers, Boolean, Objects and even a type which has no value at all, Null. Since JavaScript is a loosely typed language, you don't necessarily need to know what type of data every value is (although it certainly helps).

Every piece of data in these categories is known as a value. When a value is referred to outright in a statement, it is called a literal value. For the same reason people are identified by names as opposed to "human" or "person", literal values can be named in order to make repeated reference to them practical, efficient and readable. These names are called variables.

Literals can be of several types. Some of them are:

Array Literals

Boolean Literals

Floating-Point Literals

Integers

Object Literals

String Literals

**Question No: 27 ( Marks: 1 )**

Define URL

**URL(Uniform resource locator)**

URL (Uniform Resource Locator, previously Universal Resource Locator) - is the address of a file (resource) accessible on the Internet. The type of file or resource depends on the Internet application protocol.

Examples of URLs: <http://vu.edu.pk>

<http://www.yahoo.com>

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What is Randomized Algorithm?

**Randomized Algorithm:**

Any algorithm whose behavior is not only determined by the input, but also values produced by a random number generator

These algorithms are often simpler and more efficient than deterministic algorithms for the same problem. And because of their simplicity they are easier to analyze which is the most important thing in the decision making of an algorithm.

**Question No: 29 ( Marks: 2 )**

**What was the name of first super computer. When it was introduced?**

CRAY1 is the first computer and it was introduced in 1973

**Question No: 30 ( Marks: 3 )**

How a designer makes Structured Design?

**Structured Design** is known as a Top-down design.

The designer first conceives about the High level design and then further designs the details of the high level design components and it goes on and on.

Making small changes in the functionality of the systems sometimes leads to major re-design exercise. Structured design separates the functionality from programs data and that's why program's designed by this methodology are difficult to maintain.

**Question No: 31 ( Marks: 5 )**

Why microprocessor uses the binary number system and not the decimal or any other number system?

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The processor is the logic of a computer and functions comparably to a human central nervous system, directing signals from one component to another and enabling everything to happen. A microprocessor is made from miniaturized transistors and other circuit elements on a single

semiconductor integrated circuit (IC) . These are made up of semiconductor and silicon.

Microprocessor are composed of components which has only two states either 0 or 1. Binary number system is also composed of these two states.

Microprocessor till today only understand the machine language and machine language is only based on binary number system. Even today's 64 bit microprocessors are also based on this technology.

**Question No: 32 ( Marks: 5 )**

Why do we need an Interactive Form in a webpage?

1. Interactive forms are used to gather user data and interact with the user.
2. Forms can be made interactive with the use of client side scripting and server side scripting.
3. In HTML, <FORM> </FORM> tag is used to insert the form in a web page and it always lie in <BODY></BODY> html tag.
4. without form's web site is only "READ ONLY".
5. with the help of forms a user can search the contents, place order for goods and services.
6. Forms can be simple or very complex, based on the requirement.
7. forms can contain a single element or many e.g text area, buttons

**8. Question No: 27 ( Marks: 1 )**

9. What is the key feature of batch programs?

10.

**11. Batch files are useful for running a sequence of executables automatically**

**12. Question No: 28 ( Marks: 1 )**

13. Name two languages which are used for client side scripting?

**14. JAVASCRIPT /NETSCAPE**

15.

**16. Question No: 29 ( Marks: 2 )**

**17. What is the purpose of MODEM ?**

18.

**19. THE PURPOSE OF MODEM IS MODULATE AND DEMODULATE THE ELECTRONIC ANALOG PULSES OF THE COMPUTER TO PULSES THE PHONE SYSTEM M CAN HANDEL.**

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pdfelement

20.

21. **Question No: 30 ( Marks: 3 )**

22. What is Home Page of a web site?

23.

24. **The pages of a website can usually be accessed from a simple Uniform Resource Locator (URL) called the homepage. The URLs of the pages organize them into a hierarchy, although hyper linking between them conveys the reader's perceived site structure and guides the reader's navigation of the sit**

25.

26. **Question No: 31 ( Marks: 5 )**

27. Why microprocessor uses the binary number system and not the decimal or any other number system?

28.

29. **At this point in computer science we only have two 'digital' states, which is that any bit can only be either on or off.**

30. **The on/off is commonly used to represent yes/no.(On(1) = Yes, Off(0) = No)**

31. **A microprocessor can only see if a signal is there or is missing, in other words, if the signal is on or off, or a bit is a 1 or a 0.**

32.

33.

34. **Question No: 32 ( Marks: 5 )**

35. What is the difference between Interactive-mode and Batch-mode Application Software?

36. Batch files are useful for running a sequence of executables automatically and are often used by system administrators to **automate** tedious processes while interactive mode applications attract the attention of user this kind of applications can not execute untill

37. User have interest to execute and complete the process.

**Question No: 27 ( Marks: 1 )**

---

What is the key feature of object-oriented design?

**ANSWER:** The key feature of object-oriented design is that it treats every thing as object having properties and methods. These objects are separately treated and designed and once designed it can be used in any other system. So once designed can be used many times.

**Question No: 28 ( Marks: 1 )**

---

Write one purpose of using spreadsheets ?

**ANSWERS:** Purpose of spreadsheets is that it can do calculations on data accurately.

**Question No: 29 ( Marks: 2 )**

List down two advantages of writing Pseudo Code

**Answers:** The advantages of pseudo code are:

- It is quite similar to human language so easy to understand.
- It is close to real code so easy to write real code from it.

**Question No: 30 ( Marks: 3 )**

How can we calculate total number of rows in the truth table?

**ANSWER:** The formula for calculating number of rows in truth table is  $2^n$

Where n = number of inputs

**Question No: 31 ( Marks: 5 )**

Differentiate between Vector graphics and Bit-mapped graphics.

**ANSWER:**

VECTOR GRAPHICS	BIT MAPPED IMAGES
1. Treat everything as an object	1. Treats everything as a bit map.
2. Is resolution independent	2. Resolution dependent

**Question No: 32 ( Marks: 5 )**

Write differences between Shareware and trail ware software.

**ANSWER:**

SHAREWARE	TRIALWARE
1. These are shared freely.	1. Software is offered for a trial period.

### **CS101 Solved Subjective Part Midterm**

**Question No: 31 ( Marks: 1 )**

What does TCP/IP stand for?

**Transmission Control Protocol**

**Question No: 32 ( Marks: 1 )**

Why there is a need to use primary key in database ?

*Primary Key* is a field that uniquely identifies each record stored in a table

**Question No: 33 ( Marks: 2 )**

What is image processing ?

**Image Processing:**

A branch of computer science concerned with manipulating and enhancing computer graphics

**Question No: 34 ( Marks: 2 )**

Define testing with respect to programming..

*Testing:* The tasks performed to determine the existence of defects

**Question No: 35 ( Marks: 3 )**

How can we define a computer screen?

**Question No: 36 ( Marks: 3 )**

---

What is difference between Design and System Architecture?

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## System

A collection of elements which working together produces a result not achieved by the things alone

## System Architecture

### The structure

(in terms of components, connections, constraints) of a product or a process

### Question No: 37 ( Marks: 3 )

---

Write JavaScript code to convert the number 236.2363611111556 into currency format and JavaScript statement to show output.

```
a = 236.2363611111556;
```

```
b = a.toString();
```

```
decimalPos = b.indexOf(".", 0);
```

```
c = b.substring( 0, decimalPos + 3 );
```

```
document.write(c);
```

### Question No: 38 ( Marks: 5 )

---

Show output of the following code:

```
for (i=0; i<=10; i++)
```

```
{
```

```
document.write("The number is " + i);
```

```
document.write("<br />");
```

```
}
```

**Question No: 39 ( Marks: 5 )**

---

What is a Relational Database? Give the names of any three RDBMS software. (2+3)

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## Relational Databases

- Databases consisting of two or more related tables are called *relational databases*
- A typical relational database may have anywhere from 10 to over a thousand tables
- Each column of those tables can contain only a single type of data (contrast this with spreadsheet columns!)
- Table rows are called records; row elements are called fields
- A relational database stores all its data inside tables, and nowhere else
- All operations on data are done on those tables or those that are generated by table operations
- Tables, tables, and nothing but tables!

## RDBMS

- Relational DBMS software
- Contains facilities for creating, populating, modifying, and querying relational databases
- Examples:
  - Access
  - FileMaker Pro
  - SQL Server
  - Oracle

**Question No: 40 (Marks: 10 )**

---

Define the following terms.

- Object
- Event Handler
- Local Variable
- Scope of Variable

→ Array

### **Object**

A named collection of properties(data, state) & methods (instructions, behavior)

### **Event Handler**

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An event handler is a command which calls a function when an event happens, such as the user clicking a button

#### Local Variable

Declaring variables (using the var keyword) within a function, makes them local. They are available only

within the function and hold no meaning outside of it

#### Scope of Variable

Defining the space in which a variable is effective is known as

defining the scope of a variable. A variable can be either local or global in scope

#### Array

%%%%

#### Question No: 27 ( Marks: 1 )

**What is the Brute Force Strategy?**

**Answer:** A strategy in which all possible combinations are examined and best among them is selected. Brute force (also known as brute force cracking) is a trial and error method used by application programs to decode encrypted data such as passwords or Data Encryption Standard (DES) keys, through exhaustive effort (using brute force) rather than employing intellectual strategies.

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- 6. Forms can be simple or very complex, based on the requirement.**
- 7. Forms can contain a single element or many e.g text area, buttons**



**Question No: 31 ( Marks: 1 )**

---

**In programming, what is a loop?**

**In computer science a for loop is a programming language statement which allows code to be repeatedly executed. A for loop is classified as an iteration statement.**

**Question No: 32 ( Marks: 1 )**

---

**What are the other names of function? Any one.**

**Routine , procedure , sub program**

**Question No: 33 ( Marks: 2 )**

---

**How JavaScript Arrays are heterogeneous ?**

**Arrays are heterogeneous in java script because at the same time stimultanously they can hold elements of multiple data types**

**Question No: 34 ( Marks: 2 )**

---

**What is the database?**

**Data base is a collection of organized data in a proper way that computer can quickly search for any desired data item , its an easy way of allowing of manipulation of data,they are design in such a way that access to any desired data can be identified and reached quickly and easy , they are generally consist of collection of interrelated files**

**Question No: 35 ( Marks: 3 )**

---

**Differentiate between LAN and WAN with one example of each.**

**Lan is a local area network where as wan is a wide area network**

**Lan can be used in a specific areas with limited computers where as wan can be used on computers shared by large distances**

**For example lan can be used on pc s or an organization located in one building but wan can be used on large scales like banks all over or in any Large communication systems**

**Question No: 36 ( Marks: 3 )**

**What are Trojan Horses ?**

**Trojan horses are a kind of cyber crime , they are v harmful to computer because they are stand alone programme and the look like what they are not like any thing amusing or not harmless like games..**

**Question No: 37 ( Marks: 3 )**

**Elaborate Raster Graphics with examples.**

**A raster graphics image, digital image, or bitmap, is a data file or structure representing a generally rectangular grid of pixels, or points of color, on a computer monitor, paper, or other display device.**

**To illustrate the matter further - here's the letter "J":**

**J**

**Look closely at it... Take a magnifying glass to it if you like. You see a "J", the computer sees something more like this, where '.' represents a zero and 'X' represents a one:**

**....X**

**....X**

....X

....X

....X

....X

....X

X...X

X...X

.XXX.

Where you see a zero, the computer instructs its video hardware to paint the current background color. A one calls for the current foreground color. Yes, it is actually a bit more complicated, but it all basically boils down to one bit or the other making a distinction between the colors of adjacent pixels, which together form an image.

**Question No: 38 ( Marks: 5 )**

---

**What are the important properties, methods and event handlers of image object?**

The primary use of the image object is to download an image into the cache before it is needed to display , image object can be used to create different kinds of animations or to display one of several images based on the desired requirement , in java script image object can be used to display the required pre loaded image

**Properties of image object is : height , width ,hspace ,vspace , src , name border etc**

**Methods :none**

**Event handlers:on abort , onload, onerror etc**

**Question No: 39 ( Marks: 5 )**

---

**Write the JavaScript code for the Function SumOddNumbers(maxNumber) that can add non-negative odd numbers up to maxNumber and return their sum.**

**Function sum odd numbers(maxnumber){var sum=0;**

**For(i=0; <maxNumbers;l++)**

**{**

**{**

**if(i / 2 == 1 || i == 1)**

**sum += i;**

**}**

**return sum;**

**}**

**Question No: 40 ( Marks: 10 )**

---

**Write a note on :**

- **Coding guidelines**
- **Guidelines for developing short programs.**
- **Coding guidelines**
  - **Always use semicolons to end statements**
  - **Indent blocks of code (2 to 5 spaces)**
  - **Identifiers**

- Use the camel back scheme
- Variables: nouns
- Functions: verbs
- Comment Liberally
- Make them descriptive but concise

**Guidelines for developing short programs.**

- Read and understand the problem
- Do you have all the required data?
- No: Get it
- Else assume it. State it explicitly
- Do the design

**Question No: 41 ( Marks: 10 )**

**write a note on each of the following:**

**a. Vector or Object-Oriented Graphics:**

**b. Bit-Mapped or Raster Graphics:**

**A:** In Vector or object oriented graphic everything drawn is treated as object. objects retain their identity after they are drawn. these objects can later be moved, stretched, duplicated, deleted, etc. they are resolution independent and have relatively small file size. the examples are: swf, svg, wmf, ps

**brass\_ibrahim:** Vector graphics is the use of geometrical primitives such as points, lines, curves, and shapes or polygon(s), which are all based on mathematical equations, to represent images in computer graphics.

**brass\_ibrahim:** The term "vector graphics" is mainly used today in the context of two-dimensional computer graphics. Virtually all modern 3D rendering is done using extensions of 2D vector graphics techniques. Virtually all modern 3D rendering is done using extensions of 2D vector graphics techniques

**B:Bit-Mapped or Raster Graphics:**

**Treats everything that is drawn as a bit-map**

**If an object is drawn on top of another, it is difficult to move just one of them while**

**leaving the other untouched**

**Changing the resolution often requires considerable touch-up work**

**Relatively large file size**

**Examples: gif, jpg, bmp**

**masood.tariq: Bit-Mapped or Raster Graphics:**

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**Examples: gif, jpg, bmp**

**28 objectives were from old papers out of 30.**

<b>What is Array?</b>	<b>Marks 2</b>
<b>what is computer prrfessional?</b>	<b>Marks 2</b>
<b>define onLoad and onUnload?</b>	<b>Marks 2</b>
<b>waht is time bomb?</b>	<b>Marks 2</b>
<b>what is bandwidth?</b>	<b>Marks 2</b>
<b>"while" loop is more preferable than "For" loop?</b>	<b>Marks 3</b>
<b>semantic web and present web?</b>	<b>Marks 3</b>
<b>can we replace a human doctor by Expert system?</b>	<b>Marks 5</b>
<b>Difference Internt and intranet?</b>	<b>Marks 5</b>
<b>ways of navigation Heuristics?</b>	<b>Marks 5</b>
<b>event handling?</b>	
<b>Define network organization and its advantages?</b>	<b>Marks 10</b>
<b>Coding Guidline and guidlines for short programs?</b>	<b>Marks 10</b>
<b>Dewelop a web page that displays six thumbnails images. A main image should be changed to a large version of thumbnail as soon as the mouse moves over the thumbnail. Write complete html and java script?</b>	<b>Marks 10</b>
<b>characteristics of Internet?</b>	<b>Marks 10</b>

**Profile and responsibilities of Team Leader?**

**Marks 10**

**due to computer how many jobs are available and  
how many jobs are eliminated?**

**Marks**

**Today was my CS101 Paper. The Subjective Quizzes are as under:**

**1. How many members are in operational team and what there key responsibilities**

**2. What is Computer Screen?**

**3. What are weaknesses of the web?**

**4. Characteristics of Internet (Any Five)?**

**5. Briefly describe**

**Telnet**

**VoIP**

**Instant Messaging**

**FTP**



**IP/TCP**

**6. Describe the organizational structure?**

**7. What is image process**

**8. Pixel?**

**Today I had CS 101 Paper. There were 41 questions. 30 objective and 11 descriptive. Few of the questions were:**

**3 attributes of event handler**

**Difference between Internet and Intranet**

**Function**

**Commonsense to avoid viruses and explain antivirus**

**TCP/IP**

**An attack on Yahoo servers**

**Spreadsheets**

**Codes for uploading file**

**Hierarchy in an organization**

**Team lead**

**COO**

**Developer**

**Businesses monitoring their employees**

**'+' operator**

## Image in Javascript

**Question No: 17 ( Marks: 2 )**

---

**Write the major types of softwares with examples?**

**Answer..**

### **System SW**

**System software is responsible for controlling, integrating, and managing the individual**

**hardware components of a computer system.**

**System software performs tasks like transferring data from memory to disk, or rendering**

**text onto a display Specific kinds of system software include loading programs, operating**

**systems, device drivers, compilers, assemblers, linkers, and utilities.**

**Software libraries that perform generic functions also tend to be regarded as system**

**software. System software stored on non-volatile storage on integrated circuits is usually**

**termed firmware. These generally perform the background tasks in a computer. These**

**programs, many times, talk directly to the HW.**

### **Application SW**

**Programs that generally interact with the user to perform work that is useful to the user.**

**These programs generally talk to the HW through the assistance of system SW.**

**Question No: 18 ( Marks: 2 )**

**What is the major difference between paragraph <p> and Line Break <BR> tags?**

**<P> ... </P>**

**Paragraph**

**<BR>**

**Line break**

**Question No: 19 ( Marks: 2 )**

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**What changes in the field of computer languages can we expect in the near future**

**Question No: 20 ( Marks: 3 )**

**What are the key requirements of E-commerce Software?**

**Answer..**

**E-Commerce Software**

**Key requirements:**

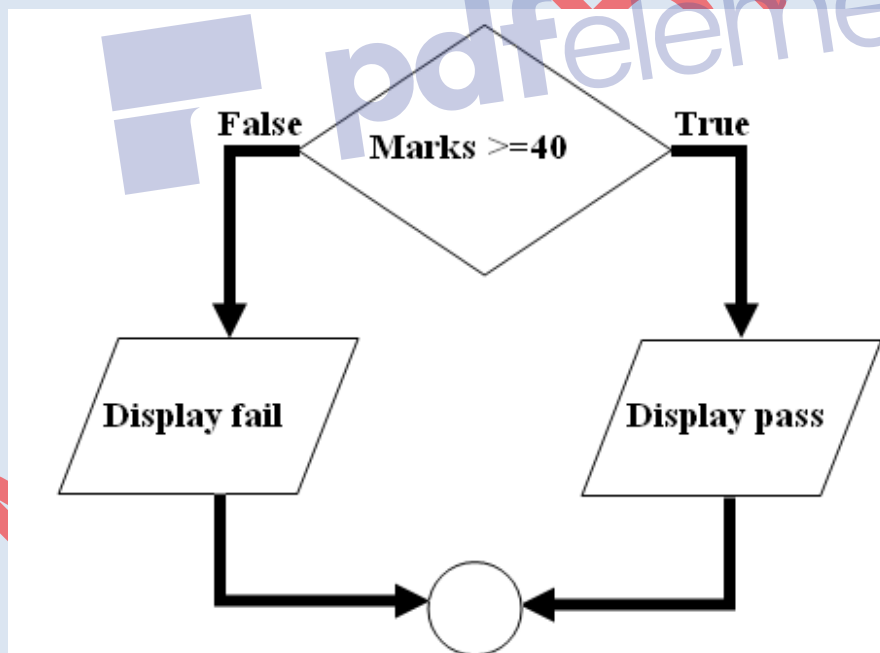
**Reliability**

**Security**

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**Question No: 21 ( Marks: 3 )**

**Write down the pseudo code for the following flow chart.**



**Answer.... Pseudo code**

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**Question No: 22 ( Marks: 5 )**

**(a) Write down two positive features of client-side scripting.**

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**Reduced server load as it does not have to send messages to the user's browser about**

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**Reduced network traffic as the form's data is sent only once instead of many to's and**

**from's**

**Question No: 17 ( Marks: 2 )**

**What is Ockham's Razor principle ?**

**Answer...**

**When choosing among competing, successful solutions to a problem, choose the one which is the least**

**complex**

**This principle is called the “Ockham’s Razor,” after William of Ockham - famous 13-th**

**century English philosopher**

**Question No: 17 ( Marks: 2 )**

---

**Explain briefly the different techniques that are used to embed JavaScript code in a web page?**

**Answer., Client-side JavaScript code is embedded within HTML documents in a number of ways:**

- **Between a pair of `<script>` and `</script>` tags**
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- **As the body of a URL that uses the special `javascript:` protocol**

The following sections document each of these JavaScript embedding techniques in more detail. Together, they explain all the ways to include JavaScript in web pages -- that is, they explain the allowed structure of JavaScript programs on the client side.

**Question No: 18 ( Marks: 2 )**

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**What is an interpreter? Write its one benefit over compiler.**

## **Answers**

**Interpreter is a program that executes instructions written in a high-level language**

**An interpreter translates high-level instructions into an intermediate form, which it then**

**executes. In contrast, a compiler translates high-level instructions directly into machine**

**language**

**Compiled programs generally run faster than interpreted programs.**

**compilation stage during which the whole of the high-level code is translated into**

**machine instructions in one go. This process can be time-consuming if the program is**

**long.**

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**completion of the translation process**

**The choice of which language to use can also depend on the:**

**-Type of computer the program is to run on,**

**- Expertise of the programmer**

**Interpreters: immediate response, but execute code slowly.**

**Compilers: Takes longer to compile, but super-fast execution.**

**Question No: 19 ( Marks: 2 )**

---

*Whether response time of a microprocessor is greater or less than that of RAM?*

A microprocessor incorporates most or all of the functions of a computer's central processing unit (CPU) on a single integrated circuit (IC, or microchip). The first microprocessors emerged in the early 1970s and were used for electronic calculators, using binary-coded decimal (BCD) arithmetic in 4-bit words. Other embedded uses of 4-bit and 8-bit microprocessors, such as terminals, printers, various kinds of automation etc, followed soon after. Affordable 8-bit microprocessors with 16-bit addressing also led to the first general-purpose microcomputers from the mid-1970s on.

During the 1960's, computer processors were often constructed out of small and medium-scale ICs containing from tens to a few hundred transistors. The integration of a whole CPU onto a single chip greatly reduced the cost of processing power. From these humble beginnings, continued increases in microprocessor capacity have rendered other forms of computers almost completely obsolete (see history of computing hardware), with one or more microprocessors used in everything from the smallest embedded systems and [handheld devices](#) to the largest [mainframes](#) and supercomputers.

Since the early 1970s, the increase in capacity of microprocessors has been a consequence of Moore's Law, which



suggests that the complexity of an integrated circuit, with respect to minimum component cost, doubles every two years

In the late 1990s, and in the high-performance microprocessor segment, heat generation ([TDP](#)), due to switching losses, static current leakage, and other factors, emerged as a leading developmental constraint

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**Write formula for the following expression.**

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**1.answer formula**

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**=(c2+c10Xc6) then enter**

**Question No: 22 ( Marks: 5 )**

---

**What is software life cycle?**

### **SW Life-Cycle**

**The sequence of phases a SW goes through from the concept to decommissioning**

**It is important to think about all those phases before the design work starts**

**Thinking about the future phases generally results in:**

**Shorter delivery times**

**Reduced costs of development**

**A system of higher quality**

### **A Case in Point**

**I didn't discuss with the customer the specs of the HW & OS before developing a**

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**Unfortunately that HW/OS combination differed from what was easily available to the**

**client Result: Huge amount of rework. Higher cost. Delayed delivery. Lower quality.**

**Therefore, now before designing a SW system, I first write down the installation manual,**

**and get it OK'd by the customer. I do the same with the Operation & Maintenance**

**manual as well.**

**Question No: 23 ( Marks: 5 )**

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**Elaborate greedy algorithm definition with solid example in favour and one counter example?**

**An algorithm that always takes the best immediate, or local solution while finding an**

**answer**

**Greedy algorithms may find the overall or globally optimal solution for some**

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**KEY ADVANTAGE:** Greedy algorithms are usually faster, since they don't consider the

**details of possible alternatives**

**Greedy Algorithm: Counter Example**

**During one of the international cricket tournaments, one of the teams intentionally lost a**

**match, so that they could qualify for the next round**

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**What sort of an algorithm should the skier be using?**

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**largest downhill slope ( $dy/dx$ ), at all times**

**What is the problem with that approach?**

**In what situations that will be the best algorithm?**

**In which situations would it perform poorly?**

Insert text: Allows you to insert text anywhere in the document.

delete text: Allows you to erase characters, words, lines, or pages as easily as you can cross them out on paper.

cut and paste: Allows you to remove (cut) a section of text from one place in a document and insert (paste) it somewhere else.

copy: Allows you to duplicate a section of text.

page size and margins: Allows you to define various page sizes and margins, and the word processor will automatically readjust the text so that it fits.

search and replace: Allows you to direct the word processor to search for a particular word or phrase. You can also direct the word processor to replace one group of characters with another everywhere that the first group appears.

word wrap: The word processor automatically moves to the next line when you have filled one line with text, and it will readjust text if you change the margins.

print: Allows you to send a document to a printer to get hardcopy.

file management: Many word processors contain file management

capabilities that allow you to create, delete, move, and search for files.

font specifications: Allows you to change fonts within a document. For example, you can specify bold, italics, and underlining. Most word processors also let you change the font size and even the typeface.

footnotes and cross-references: Automates the numbering and placement of footnotes and enables you to easily cross-reference other sections of the document.

graphics graphics: Allows you to embed illustrations and graphs into a document. Some word processors let you create the illustrations within the word processor; others let you insert an illustration produced by a different program.

headers , footers , and page numbering: Allows you to specify customized headers and footers that the word processor will put at the top and bottom of every page. The word processor automatically keeps track of page numbers so that the correct number appears on each page.

layout : Allows you to specify different margins within a single document and to specify various methods for indenting paragraphs.

macros : A macro is a character or word that represents a series of keystrokes. The keystrokes can represent text or commands. The ability to define macros allows you to save yourself a lot of time by replacing common combinations of keystrokes.

merges: Allows you to merge text from one file into another file. This is particularly useful for generating many files that have the same format but different data. Generating mailing labels is the classic example of using merges.

spell checker : A utility that allows you to check the spelling of words. It will highlight any words that it does not recognize.

tables of contents and indexes: Allows you to automatically create a table of contents and index based on special codes that you insert in the document.

thesaurus: A built-in thesaurus that allows you to search for synonyms without leaving the word processor.

**Question No: 17 ( Marks: 2 )**

Write the

major types of softwares with examples?

Answer..

System SW

System software is responsible for controlling, integrating, and managing the

individual

hardware components of a computer system.

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System software performs tasks like transferring data from memory to disk, or

rendering

text onto a display Specific kinds of system software include loading programs,

operating

systems, device drivers, compilers, assemblers, linkers, and utilities.

Software libraries that perform generic functions also tend to be regarded as system

software. System software stored on non-volatile storage on integrated circuits is

usually

termed firmware. These generally perform the background tasks in a computer. These

programs, many times, talk directly to the HW.

Application SW

Programs that generally interact with the user to perform work that is useful to the

user.

These programs generally talk to the HW through the assistance of system SW.

**Question No: 18 ( Marks: 2 )**

What is

the major difference between paragraph <p> and Line Break <BR> tags?

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<P> ... </P>

Paragraph

<BR>

Line break

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## E-Commerce Software

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**Question No: 27 ( Marks: 1 )**

What are compilers used for ?

Ans: compiler is a software that can translate the whole program in [once.it](http://once.it) also save the program.

**Question No: 28 ( Marks: 1 )**

What is Script?

Ans: script is a sequence of steps to carry out a work by processor And manage by a language like Javascript and vb scripts.

**Question No: 29 ( Marks: 2 )**

**What is <P> tag in HTML and How it is different from <br> tag?**

**Ans: <p> is used for paragraph in HTML language it has a closing tag </p> unlike <br> which has no closing tag. Br only used to break the current line while**

<p> can be used for more lines

**Question No: 30 ( Marks: 3 )**

How can you manipulate the address of a file (resource) accessible on the Internet?

World wide web ,URL, domain name

**Question No: 31 ( Marks: 5 )**

**Write Hyper Link for a Web Page and for an Email Address.**

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**Ans: Following are the Hyper link for a web page**

[www.vu.edu.pk](http://www.vu.edu.pk)  
[www.yahoo.com](http://www.yahoo.com)  
[www.hotmail.com](http://www.hotmail.com)

**Question No: 32 ( Marks: 5 )**

Write down the requirement of Desktop Publishing?  
User requirement

Softwear requirements

. Laser printer  
Scanner

DESktop publishing softwears  
e.g

adobe page maker  
Ms publisher

High end pc with a large screen monitor  
Formate

Numerical data  
Text

**Question No: 27 ( Marks: 1 )**

What is the key feature of batch programs?

**Answer:** The key feature is no user interaction with computer while a program is running.

**Question No: 28 ( Marks: 1 )**

Name two languages which are used for client side scripting?

**Answer:** Javascript , VBscript

Question No: 29 ( Marks: 2 ) What is  
the purpose of MODEM ?

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**Answer:** It receive data analog signal from a phone line and then convert them into digital signal and send back to the computer with which it is attached. It also receives data from computer and convert it into analog signals.

Question No: 30 ( Marks: 3 ) What is

Home Page of a web site?

**Answer:** For a web user it is a first page displayed when a user starts a web browser and for a web developer it is a first page when a user selects a site.

Question No: 31 ( Marks: 5 )

Why microprocessor uses the binary number system and not the decimal or any other number system?

**Answer:** Because this system is natural for digital computer. Digital computer have fundamental building blocks like ON & OFF Etc so it is natural to represent those in a number system that has only two symbols e.g Binary Numbers 0,1. Whereas decimal system is natural for human.

Question No: 32 ( Marks: 5 )

What is the difference between Interactive-mode and Batch- mode Application Software?

**Answer:** Batch-mode: This Mode Program has no user interaction with computer while a program is running e.g Paroll

Interactive-mode: The user runs the program on the computer and keeps interacting with the computer while a program is running e.g word processor

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