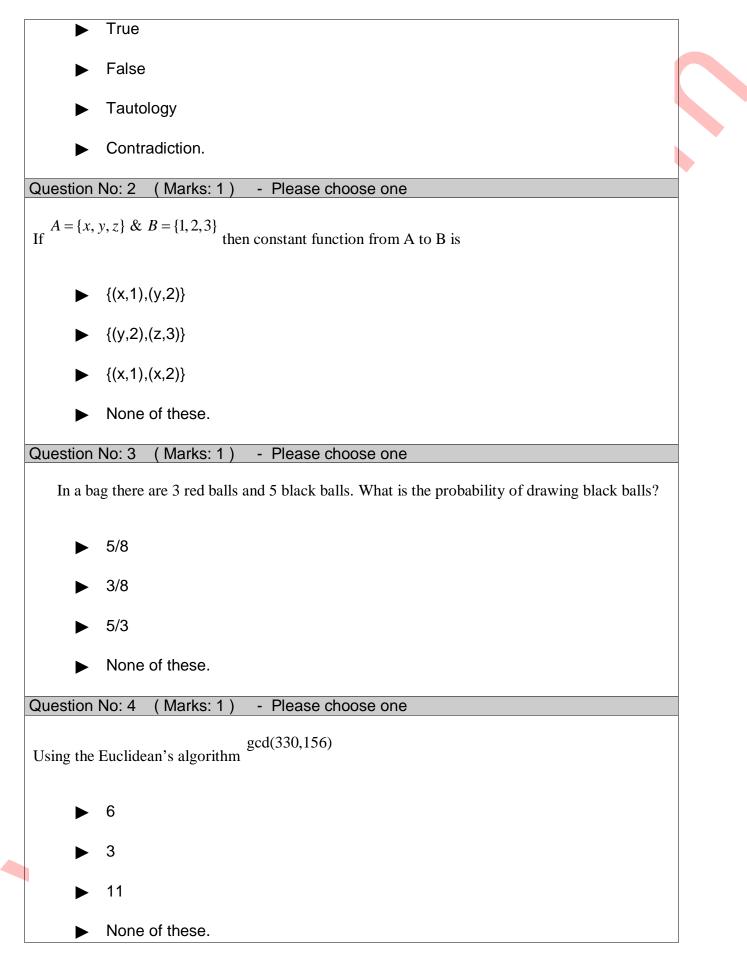
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If p & q are two propositions, p is true and q is false, then $p \rightarrow q$ is



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$n \cdot 1 > 7 \& a \cdot 5 < 2$	n > a
p:1 > 7 & q:5 < 2 If then the dis	sjunction $p \lor q$ is
► True	
False	
None of these.	
Question No: 6 (Marks: 5)	
$(A \cap B)^c = A^c \cup B^c$ Prove that	(Not using venn diagram)
Question No: 7 (Marks: 5)	
If 5th term of an Arithmetic pr	rogression is 16 and 20 th term is 46 then what is its 12 th term?
Question No: 8 (Marks: 10)	
	5 green balls. Three balls are drawn from the box together. Find
A box contains 4 red, 4 white and the probability that may be: (a) All are of different colours.	5 green balls. Three balls are drawn from the box together. Find
A box contains 4 red, 4 white and the probability that may be: (a) All are of different colours. (b) All are of same colours.	$\Box q \land (p \rightarrow q) \rightarrow \Box p$
A box contains 4 red, 4 white and the probability that may be: (a) All are of different colours. (b) All are of same colours. Question No: 9 (Marks: 10)	$\Box q \land (p \rightarrow q) \rightarrow \Box p$
A box contains 4 red, 4 white and the probability that may be: (a) All are of different colours. (b) All are of same colours. Question No: 9 (Marks: 10) Show that the following statement Question No: 10 (Marks: 10) (a) What is the expectation of	$\Box q \land (p \rightarrow q) \rightarrow \Box p$
A box contains 4 red, 4 white and the probability that may be: (a) All are of different colours. (b) All are of same colours. Question No: 9 (Marks: 10) Show that the following statement Question No: 10 (Marks: 10) (a) What is the expectation of	the number of heads, when three fair coins are tossed?

(a) Determine the number of vertices, edges and find the degree of each vertex for the given directed graph.

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(b) Using the Eu	gcd(440,120).	
Question No: 12	2 (Marks: 5)	
Prove that if n is	an odd integer, then $n^3 + n$ is even.	
5		