

Class : XI

Subject : Mathematics

Time : 3 hrs

FM : 75

[Candidates are required to give their answer in their own words as far as practicable the figure on the right side indicates full marks.]

Attempt all questions

Group – A

1 × 11 = 11

Rewrite the correct option in your own answer sheet.

1. For any two real numbers x and y
 - a) $|x + y| \leq |x| - |y|$
 - b) $|x + y| \leq |x| + |y|$
 - c) $|x + y| \geq |x| - |y|$
 - d) $|x + y| \geq |x| + |y|$
2. What is the order of product of matrix BA , if $A = \begin{bmatrix} 2 & 3 \\ 1 & 5 \\ 3 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & 2 & 6 \\ 1 & 8 & 7 \end{bmatrix}$?
 - a) 2×2
 - b) 2×3
 - c) 3×2
 - d) 3×3
3. The intersection point of medians of a triangle is called
 - a) circumcenter
 - b) Orthocenter
 - c) Centroid
 - d) incenter
4. The relation between A.M, G.M. and H.M is
 - a) $A.M. \leq G.M. \leq H.M.$
 - b) $A.M. < G.M. < H.M.$
 - c) $A.M. \geq G.M. \geq H.M.$
 - d) $A.M. > G.M. > H.M.$
5. The value of a complex number $(0, 1)^{41}$ is
 - a) $-i$
 - b) i
 - c) -1
 - d) 1
6. The relation of skewness is
 - a) $\text{mean} > \text{median} > \text{mode}.$
 - b) $\text{mean} < \text{median} < \text{mode}$
 - c) $\text{mean} = \text{median} = \text{mode}.$
 - d) all of the above
7. A coin is tossed successively three times. What is the probability of getting all are heads.
 - a) $\frac{1}{8}$
 - b) $\frac{3}{8}$
 - c) $\frac{7}{8}$
 - d) $\frac{5}{8}$
8. The limiting value of $\lim_{\theta \rightarrow 0} \frac{\sin \theta}{\theta}$ is
 - a) $\frac{0}{0}$
 - b) 0
 - c) 1
 - d) ∞
9. The derivative of $\cos 5x$ is
 - a) $5 \cos 5x$
 - b) $5 \sin 5x$
 - c) $-\sin 5x$
 - d) $-5 \sin 5x$
10. The value of integration, $I = \int_1^2 x^3 dx$ is
 - a) 7
 - b) $\frac{3}{4}$
 - c) 4
 - d) $\frac{5}{4}$
11. In the equilibrium market, there is
 - a) demand $>$ supply
 - b) demand $<$ supply
 - c) demand $=$ supply
 - d) all of above

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