

**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)  $2 \times 2$
  - b)  $2 \times 3$
  - c)  $3 \times 2$
  - d)  $3 \times 3$
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)  $\infty$
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

# Grade 11 Pure Maths Final Exam Paper1 Topics

**Michael Hoelscher**



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