

Secondary Education Examination

Model question – 2078

Grade: 12

Subject: Mathematics (Mat. 008)

Full marks: 75

Attempt all the questions

Group 'A'

[1 × 11 = 11]

Rewrite the correct option in your answer sheet.

- If 1, ω , ω^2 are the cube roots of unit then
 (a) $\omega = \omega^2$ (b) $\omega^2 = \omega^3$ (c) $1 + \omega + \omega^2 = 0$ (d) $1 + \omega = \omega^2$
- The number of ways that 7 beads of different colors can be strung together so as to form a necklace is
 (a) 5040 (b) 2520 (c) 720 (d) 360
- $\tan^{-1} \frac{5}{12}$ is equal to
 (a) $\sin^{-1} \frac{12}{13}$ (b) $\cos^{-1} \frac{12}{13}$ (c) $\sec^{-1} \frac{12}{13}$ (d) $\operatorname{cosec}^{-1} \frac{12}{13}$
- If $2 \cos \theta + 1 = 0$ is the trigonometric equation of the locus related to the string attached in the wall of a hall then the general value for θ is
 (a) $n\pi + (-1)^n \frac{2\pi}{3}$ for $n \in \mathbb{Z}$
 (b) $n\pi + \frac{2\pi}{3}$ for $n \in \mathbb{Z}$
 (c) $2n\pi \pm \frac{2\pi}{3}$ for $n \in \mathbb{Z}$
 (d) $2n\pi + \frac{\pi}{3}$ for $n \in \mathbb{Z}$
- If $\vec{a} = 2\vec{i}$ and $\vec{b} = 3\vec{j}$ where, \vec{i} , \vec{j} and \vec{k} unit vectors along X,Y,Z- axes respectively, then the value $\vec{b} \times \vec{a}$ is equal to
 (a) $-6\vec{k}$ (b) $6\vec{k}$ (c) $6\vec{i}$ (d) $6\vec{j}$
- There is a large grassy area near the president house of Nepal. The area is the set of all points in a plane. The sum of whose distances from two fixed places (points) is constant. The conic section represented by the grassy area is...
 (a) Circle (b) Parabola (c) Hyperbola (d) Ellipse
- Four unbiased coins are tossed successively. The mean and variance of the distribution differed by
 (a) 1 (b) 2 (c) 3 (d) 4
- The degree of the differential equation $\frac{d^3y}{dx^3} + 5\left(\frac{d^2y}{dx^2}\right)^2 + 4\left(\frac{dy}{dx}\right)^4 + 6 = 0$ is
 (a) 1 (b) 2 (c) 3 (d) 4

Model Question Paper Mathematics Class Xii

Didier Musso



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