

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 75

Attempt all the questions.

Group 'A'

[1×1=1]

Rewrite the correct options of each question in your answer sheet.

- The property of cube roots of unity where ω is the cube root of unity is.
A) $1 + \omega + \omega^2 = 0$ B) $\omega^3 + 1 = 0$ C) $\omega = -\omega^2$ D) $\omega + \omega^2 = 1$
- Which of the following is true?
A) The set of integers under addition is an abelian group.
B) The set of two order matrices is an abelian group under multiplication.
C) The set of rational numbers under multiplication is an abelian group.
D) The set of natural numbers is an abelian group under addition.
- $\sin^{-1}x$ is equal to
A) $\cos^{-1}\sqrt{1-x^2}$ B) $\tan^{-1}\sqrt{1-x^2}$
C) $\operatorname{cosec}^{-1}\sqrt{1-x^2}$ D) $\cos^{-1}\sqrt{1-x^2}$
- If $\tan x + \frac{1}{\tan x} = 0$ is the trigonometric equations then the general value for x is
A) $x = \pm \frac{\pi}{6}$ B) $2x = \pm \frac{\pi}{6}$ C) $2x = \pm \frac{5\pi}{6}$ D) $x = \pm \frac{5\pi}{6}$
- If $\vec{a}$ and $\vec{b}$ are two vectors then the value of $(\vec{a} - \vec{b}) \times (\vec{a} + \vec{b})$ is equal to
A) $2(\vec{a} \times \vec{b})$ B) $\vec{a}^2 - \vec{b}^2$ C) $2(\vec{a} \times \vec{b})$ D) $2(\vec{a}^2 - \vec{b}^2)$

- The range of the probability of any event A is
A) $0 \leq P(A) \leq 1$ B) $0 \leq P(A) < 1$
C) $-1 \leq P(A) \leq 1$ D) $0 < P(A) < 1$
- Tangent to the curve $y = x^2$ at $x = 2$ and $x = -2$ are
A) parallel B) perpendicular C) intersecting D) Does not exist
- The integrating factor of differential equation $\sin x \frac{dy}{dx} + y \cos x = x \sin x$ is
A) $\sin x$ B) $\cos x$ C) $\tan x$ D) $\cot x$
- During the process of solving system of linear equation in x, y, z if we get $0 \times z = 0$, then the system is
A) inconsistent and has no solution
B) consistent and has unique solution
C) inconsistent and but has no solution
D) consistent and has infinitely solution
- A force acts on a body of mass m for a time T and changes its velocity from ' u ' to ' V '. The change in momentum of the body in time t is
A) $\frac{mu - mv}{t}$ B) $\frac{mv - mu}{t}$ C) $\frac{mv - mu}{u \cdot v}$ D) $\frac{u - v}{mt}$

Or

In a input-output model if A -input coefficient of matrix, I be unit matrix then each diagonal elements of the $(I-A)$ is positive and $[I-A]$ is positive then the system is called

- A) viable B) unviable C) unit elastic D) elastic

Group 'B'

3×5=15

- a) Define binomial expansion. (1)
b) Find the middle term of $(2 + 3x)^{20}$ (2)
c) Find the sum of n binomial coefficients in the expansion of $(1+x)^n$ when $x = 1$. (1)
d) What do you mean by argument of complex number? (1)

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SA Adler



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