

Time allowed: 180 min

Marks: 100

General Instructions

- The question paper consists of 3 parts. Each question of each part is compulsory.
- **SEC-A: (10 questions)** Questions 1 to 10 are of 1 mark(s) each
- **SEC-B: (12 questions)** Questions 11 to 22 are of 4 mark(s) each
- **SEC-C: (7 questions)** Questions 23 to 29 are of 6 mark(s) each
- Links to individual answers on clay6.com have also been provided.

SEC-A

(10 x 1 mark = 10 marks)

- 1) What is the angle between following planes $2x - 3y + 4z = 1$ and $-x + y = 4$?
- 2) What is the area of the parallelogram having diagonals $3\vec{i} + \vec{j} - 2\vec{k}$ and $\vec{i} - 3\vec{j} + 4\vec{k}$?
- 3) If $e^{x+y} = xy$, what is $\frac{dy}{dx}$?
- 4) Given $A = \begin{bmatrix} 3 & -3 & 4 \\ 2 & -3 & 4 \\ 0 & -1 & 1 \end{bmatrix}$ Express A^{-1} in terms of A?
- 5) What does $\cos^{-1} \frac{4}{5} + \cos^{-1} \frac{12}{13}$ reduce to?
- 6) If $\begin{bmatrix} xy & 4 \\ z+6 & x+y \end{bmatrix} = \begin{bmatrix} 8 & w \\ 0 & 6 \end{bmatrix}$ then find the value of x,y,z and w
- 7) If A,B and C are angles of a triangle ,then the determinant $\begin{vmatrix} 1 & \cos C & \cos B \\ \cos C & 1 & \cos A \\ \cos B & \cos A & 1 \end{vmatrix}$ is equal to
- 8) Integrate the function $e^x \left(\frac{1}{x} - \frac{1}{x^2} \right)$
- 9) Let $f : \{1, 3, 4\} \rightarrow \{1, 2, 5\}$ and $g : \{1, 2, 5\} \rightarrow \{1, 3\}$ be given by $f = \{(1, 2), (3, 5), (4, 1)\}$ and $g = \{(1, 3), (2, 3), (5, 1)\}$. Write down $g \circ f$.
- 10) Choose the correct answer. The planes: $2x - y + 4z = 5$ and $5x - 2.5y + 10z = 6$ are:

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