

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)

- What is the angle between following planes  $2x - 3y + 4z = 1$  and  $-x + y = 4$ ?
- What is the area of the parallelogram having diagonals  $3\vec{i} + \vec{j} - 2\vec{k}$  and  $\vec{i} - 3\vec{j} + 4\vec{k}$ ?
- If  $e^{x+y} = xy$ , what is  $\frac{dy}{dx}$ ?
- Given  $A = \begin{bmatrix} 3 & -3 & 4 \\ 2 & -3 & 4 \\ 0 & -1 & 1 \end{bmatrix}$  Express  $A^{-1}$  in terms of  $A$ ?
- What does  $\cos^{-1} \frac{4}{5} + \cos^{-1} \frac{12}{13}$  reduce to?
- 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  $w$
- 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
- Integrate the function  $e^x \left( \frac{1}{x} - \frac{1}{x^2} \right)$
- 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  $g \circ f$ .
- Choose the correct answer. The planes:  $2x - y + 4z = 5$  and  $5x - 2.5y + 10z = 6$  are:

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**Annelies Wilder-Smith**



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