

SECTION A: (40 MARKS)

Answer **all** the questions in this section.

1. Solve the equation: $\sin x + \sin 2x + \sin 3x = 0$ for $0^\circ \leq x \leq 180^\circ$. (05 marks)

2. (a) Express $Z = \frac{3+i}{1-i}$ in the form $a + bi$, where a and b are integers. (03 marks)

- (b) Find the argument of Z . (02 marks)

3. Given that $y = \ln \left\{ x \sqrt{(x+1)^3} \right\}$, find $\frac{dy}{dx}$. (05 marks)

4. A plane is perpendicular to the vector $r = (i + 3j - 2k)$ and contains the point $P(-2, 0, 4)$. Determine the equation of the plane. (05 marks)

5. Evaluate $\int_0^{\pi/3} \tan^2 \frac{1}{2} x \, dx$. (05 marks)

6. In how many ways can the letters of the word BUNDESLIGA be arranged if:

- (a) there is no restriction? (02 marks)

- (b) the vowels must be together? (03 marks)

7. (a) Show that the curves $y = x^2 + 2x + 1$ and $y = x^2 + 4x + 3$ intersect at the points $(-1, 0)$ and $(1, 4)$. (02 marks)

- (b) Determine the coordinates of the other two points of intersection. (02 marks)

- (c) Determine the coordinates of the other two points of intersection. (02 marks)

8. Find the gradient of the curve $x^2 + y^2 + z^2 = 1$ at the point $(1, 0, 0)$. (02 marks)

SECTION B: (40 MARKS)

Answer **any three** questions from this section. All questions carry equal marks.

9. (a) A function $f(x)$ is given by $f(x) = x^3 + 2x^2 - 3x + 1$. Find $f'(x)$ and $f''(x)$. (04 marks)
- (b) A function $f(x)$ is given by $f(x) = x^3 + 2x^2 - 3x + 1$. Find $f'(x)$ and $f''(x)$. (04 marks)
- (c) A function $f(x)$ is given by $f(x) = x^3 + 2x^2 - 3x + 1$. Find $f'(x)$ and $f''(x)$. (04 marks)
- (d) A function $f(x)$ is given by $f(x) = x^3 + 2x^2 - 3x + 1$. Find $f'(x)$ and $f''(x)$. (04 marks)

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