

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 $y = x^2 - 2x + 1$ intersect at $(-1, 0)$ and $(1, 0)$. (02 marks)

- (b) Find the area of the region bounded by the curves $y = x^2 + 2x + 1$ and $y = x^2 - 2x + 1$. (03 marks)

- (c) Determine the coordinates of the vertices of the triangle formed by the curves and the y-axis. (03 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 $f(x) = x^3 - 3x^2 + 2x + 1$. Find the values of x for which $f(x) = 0$. (03 marks)
- (b) A function $f(x)$ is given by $f(x) = x^3 - 3x^2 + 2x + 1$. Find the values of x for which $f'(x) = 0$. (03 marks)
- (c) A function $f(x)$ is given by $f(x) = x^3 - 3x^2 + 2x + 1$. Find the values of x for which $f''(x) = 0$. (03 marks)
- (d) A function $f(x)$ is given by $f(x) = x^3 - 3x^2 + 2x + 1$. Find the values of x for which $f'''(x) = 0$. (03 marks)

Maths Questions Paper One Uneb 23

G Psacharopoulos



Maths Questions Paper One Uneb 23:

Unveiling the Magic of Words: A Review of "**Maths Questions Paper One Uneb 23**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Maths Questions Paper One Uneb 23**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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