

**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 the origin and at the point  $(2, 5)$ . (02 marks)

(b) Determine the coordinates of the other intersection point. (03 marks)

8. Find the gradient of the curve  $y = \sin^{-1} x + \cos^{-1} x$  at the point  $(\frac{1}{2}, \frac{\pi}{2})$ . (02 marks)

**SECTION B: (40 MARKS)**

Answer all the questions from this section. All questions carry equal marks.

9. A function  $f(x)$  is defined by  $f(x) = \frac{1}{x^2} + \frac{1}{x}$ . Find  $f'(x)$  and hence find the gradient of the normal to the curve at the point where  $x = 1$ . (05 marks)

# Mathematics Uace Past Papers Solution

**Julia Schneider**



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