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UACE MATHEMATICS PAPER 1 2014 guide

SECTION A (40 marks)

Answer all questions in this section

- Solve the simultaneous equation
 $x - 2y - 2z = 0$
 $2x + 3y + z = 1$
 $3x - y - 3z = 3$ (05marks)
- A focal chord P-Q, to the hyperbola $y^2 = 4x$, has a gradient $m = 1$. Find the coordinates of the mid-point of P-Q. (05-marks)
- Given that $\cos 2A - \cos 2B = -p$ and $\sin 2A - \sin 2B = q$, prove that $\sec(A + B) = \frac{1}{q} \sqrt{p^2 + q^2}$ (05marks)
- Differentiate $\log_e \left(\frac{e^{\cos x}}{\sin^2 x} \right)$.
- Find the equation of a line through S(1, 0, 2) and T(3, 2, 1) in the form $r = a + \lambda b$. (05marks)
- Solve the equation $\sqrt{2x+3} - \sqrt{x+1} = \sqrt{x-2}$ (05marks)
- Find $\int x(1-x^2)^{\frac{1}{2}} dx$ (05marks)
- A cylinder has radius r and height $8r$. The radius increases from 4cm to 44.1cm. Find the approximate increase in the volume. (use $\pi = 3.14$) (05marks)

SECTION B (60MARKS)

Answer any five questions from this section. All questions carry equal marks)

- (a) Given that the complex number Z and its conjugate $\bar{Z}$ satisfy the equation $Z\bar{Z} + 2iZ = 12 + 6i$. Find Z . (07marks)
 (b) One root of the equation $Z^3 - 3Z^2 + 9Z + 13 = 0$ is $2 + 3i$. Determine other roots (05marks)
- A circle is described by the equation $x^2 + y^2 - 4x - 8y + 16 = 0$. A line given by the equation $y = 2(x - 1)$ cuts the circle at points A and B. A point (x, y) moves such that its distance from the midpoint of AB is equal to its distance from the centre of the circle.
 (a) Calculate the coordinates of A and B. (04 marks)
 (b) Determine the centre and radius of the circle (04marks)
 (c) Find locus of P. (04marks)
- (a) differentiate $y = \cot^{-1}(f(x))$ with respect to x (06marks)
 (b) Evaluate $\int_0^{\pi} x \sin x dx$ (06marks)

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