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**UACE MATHEMATICS PAPER 1 2014 guide** 

#### SECTION A (40 marks)

#### Answer all questions in this section

1. Solve the simultaneous equation

X - 2y - 2z = 02x + 3y + z = 1

2x + 3y + z = 1

3x - y - 3z = 3(05 marks)

- A focal chord PQ, to the hyperbola y<sup>2</sup> = 4x, has a gradient m = 1. Find the coordinates of the mid-point of PQ. (05marks)
- 3. Given that cos 2A cos 2B = -p and sin 2A sin 2B = q, prove that sec (A + B) =  $\frac{1}{q}\sqrt{p^2 + q^2}$  (05 marks)
- 4. Differentiatelo  $g_s \left( \frac{e^{cons}}{sin^2x} \right)$ .
- Find the equation of a line through S(1, 0, 2) and T(3, 2, 1) in the form r = a +λb. (05 marks)
- 6. Solve the equation  $\sqrt{2x+3} \sqrt{x+1} = \sqrt{x-2}$  (05marks)
- 7. Find  $\int x(1-x^2)^{\frac{1}{2}}dx$  (05 marks)
- A cylinder has radius r and height 8r. The radius increases from 4cm to 44.1cm. Find the approximate increase n the volume. (use π = 3.14) (05marks)

#### SECTION B (GOMARKS)

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

9. (a) Given that the complex number Z and its conjugate Z satisfy the equation

2Z + 2iZ = 12 + 6i. Find Z. (07marks)

(b) One root of the equation  $Z^2 - 3Z^2 + 9Z + 13 = 0$  is 2 + 3i. Determine other roots (05 marks)

- 10. A circle is described by the equation x² + y² 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 (O4marks)
  - (c) Find locus of P. (O4marks)
- 11. (a) differentiate  $y = \cot^{-1}(Inx)$  with respect to x (O6marks)
  - (b) Evaluate f xsinxdx (06marks)

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