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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)

# Maths Scope Paper 1 2014

**Ivan Dimov, István Faragó, Lubin  
Vulkov**



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