

ELECTRICAL ENGINEERING LEVEL 6

Mathematics End of Term Exams

Answer all questions

Time: 2 hrs

1. Solve

(a) $\text{Log}(x-1) + \text{log}(x+8) = 2\text{log}(x+2)$

(b) $3^{2n-1} = 7^{n+2}$

(c) $\text{Log } 2x^2 + \text{log } x = \text{log } 2 - \text{log } x$

(d) $\text{Log}(x^2+8) - \text{log}(2x) = \text{log } 3$ (20 mks)

2. (a) Determine the number of terms whose value is 22 in the series

$2 \frac{1}{2}, 4, 5 \frac{1}{2}, 7, \dots$ (4 mks)

b) An oil company bores a hole 120m deep. Estimate the cost of boring if the cost is Ksh 700 for drilling the first metre with an increase in cost of Ksh 30 per metre for each succeeding metre. (6 marks)

c) The 1st, 10th and last terms of an A.P are 9,40 and 4255.5 respectively. Find:

(i) the number of terms

(ii) sum of all terms

(iii) the 70th term (10 marks)

3. (a) If $Z_1 = 1 - j3$, $Z_2 = -2 + j5$ and $Z_3 = -3 - j4$, determine giving your answer in a+jb form and polar form

(i) Z_1/Z_3

(ii) $Z_1 Z_2 / (Z_1 + Z_2)$ (6 marks)

(b) Two impedances $Z_1 = (3 + j6)$ and $Z_2 = (4 - j3)$ are connected in series to a supply voltage of 120V. Determine the magnitude of current and its phase angle relative to the voltage. (4 marks)

(c) In a schering bridge circuit

$Z_x = (R_x - jX_{c3})$, $Z_2 = -jX_{c2}$, $Z_3 = ((R_3)(-jX_{c3}))/ (R_3 - jX_{c3})$ and $Z_4 = R_4$ when at balance $Z_x Z_3 = Z_2 Z_4$

Show that at balance $R_x = C_3 R_4 / C_2$ and $C_x = C_2 R_3 / R_4$ (10 marks)

4. (a) Prove that:

Mathematics Level 6

JL Elias



Mathematics Level 6:

Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Mathematics Level 6**

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