RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College under University of Calcutta)

FIRST YEAR

B.A./B.Sc. SECOND SEMESTER (January – June) 2015

Mid-Semester Examination, March 2015

Date : 19/03/2015 **ELECTRONICS (General)**

Time : 12 noon – 1 pm Paper : II Full Marks : 25

1. What is Integrated Circuit? Mention the advantages and disadvantages of IC. Mention some applications of IC. (10)

OR

Calculate the gain of Inverting Amplifier using OP-AMP 741C. Why OP-AMP is called operational amplifier? (10)

2. Mention the advantages of Feed Back in Negative Mode. Calculate the overall gain of Negative Feed Back Amplifier. (10)

OR

Define the following :– (4 × 2½)

i) CMRR ii) Slew Rate

iii) Off-Set Null iv) Ideal characteristics of OP-AMP.

3. Calculate the gain stability of an amplifier used in Negative mode. (5)

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