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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2018

LINEAR INTEGRATED CIRCUITS

[Time: 3 hours

(Maximum marks: 100)

PART — A

(Maximum marks: 10)

Marks

- I Answer all questions in one or two sentences. Each question carries 2 marks.
 - 1. Define CMMR of Opamp.
 - 2. Draw the frequency response of a High pass filter.
 - 3. Define Lock-in range of PLL.
 - 4. Define line regulation.
 - 5. Write any two application of IC 555.

 $(5 \times 2 = 10)$

PART — B

(Maximum marks: 30)

- II Answer any five of the following questions. Each question carries 6 marks.
 - 1. Draw the block diagram of general purpose Opamp.
 - 2. Explain the concept of virtual ground.
 - 3. Explain the circuit of summing amplifier using Opamp.
 - 4. Draw the circuit of Astable multivibrator using opamp and explain.
 - 5. Draw the functional block diagram of VCO.
 - 6. Draw and explain an adjustable IC regulator circuit.
 - 7. Draw the symbol of analog multiplier and write the applications.

 $(5 \times 6 = 30)$

[P.T.O.

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Marks