

FACULTY OF ENGINEERING
SE(EC/ECT/IE) Examination - DEC - 2014
ELECTRONIC DEVICES AND CIRCUITS-II(Revised)

[Time: THREE Hours]

[Max. Marks: 80]

“Please check whether you have got the right question paper.”

- i) Solve any two questions from remaining in each section.
- ii) Q. no.1 and Q.no. 6 are compulsory
- iii) Figure to the right indicates full marks.

SECTION A

- Q 1 Solve any five questions. (10)
- i) draw construction and symbol of laser diode
 - ii) draw collector dissipation curve
 - iii) What are various configurations of differential amplifier?
 - iv) What is CCD?
 - v) What is crossover distortion?
 - vi) Draw response of pulse amplifier in time domain
 - vii) What are specifications of IC741C
 - viii) Draw frequency response of RC coupled amplifier.
- Q2 A Draw construction of barritt diode in detail. What are different parameters of barritt diode (08)
 B Describe schottky diode in detail. (07)
- Q 3 A Explain complementary symmetry push pull amplifier (08)
 B Explain need of heat sink in detail with its design. (07)
- Q4 A What are various parameters of op-amp? Explain in detail (08)
 B Explain constant current bias in detail (07)
- Q 5 A Draw and explain transformer coupled amplifier in detail (08)
 B What is class-c power amplifier describe in detail (07)

SECTION-B

- Q6 Solve any five (10)
- i) What will be response of differentiator with square wave input?
 - ii) What are differences between symmetrical and asymmetrical triggering?
 - ii) Explain need of speed up capacitor.
 - iv) Compare as table and monostable multi vibrator.
 - v) Define clamper with its applications.
 - vi) Difference between clippers and clampers.
 - vii) Define flyback time
 - vii) What are applications of integrator
- Q7 A Explain operation of integrator with square waveforms (08)
 B Draw and explain biased clampers with waveforms. (07)
- Q8 A What are different multivibrators? Explain any one with its duty cycle and wave forms (08)
 B What is meant by self bias binary? Explain (07)
- Q9 A Explain operation of bootstrap sweep generator (08)
 B What is diode control blocking oscillator (07)
- Q10 Short notes (any three) (15)
- A Combinational clipper
 - B Schmitt trigger
 - C RC control blocking oscillator.
 - D Fixed biased binary