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Roll No

CS-3002-CBGS

B.E., III Semester

Examination, June 2020

Choice Based Grading System (CBGS)

Electronic Devices and Circuits

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

iii) Assume data suitably.

1. a) Explain the V.I characteristics of a PN junction diode and show that PN diode works as a rectifier. 7
b) Differentiate BJT and FET. 7
2. a) With the help of characteristics curves and neat sketches explain the operation of the junction FET. 7
b) What is Zener diode? Explain. 7
3. a) What do you understand by feedback in amplifier? Explain its types. Write two advantages and disadvantages of negative feedback. 7
b) Draw wien bridge oscillator and explain its working. 7
4. a) Explain working of L-C (Hartley Colpitts) oscillator. 7
b) Explain power amplifier. 7

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5. a) Explain how transistor can be used as a switch. Also discuss it's switching characteristics. 7
b) Write short note on bistable multivibrator. 7
6. a) Explain the transfer characteristics of differential amplifier. 7
b) Draw and explain free running multivibrator. 7
7. a) Describe Schmitt trigger. 7
b) Write short note instrumentation amplifier. 7
8. Write short note on 14
i) Slew rate
ii) Operational amplifier
iii) Lag and Antilog amplifier
iv) Off-set voltage

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