

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

CS-221-CBCS

B.E., III Semester

Examination, June 2020

Choice Based Credit System (CBCS)

Electronic Devices and Circuits

Time : Three Hours

Maximum Marks : 60

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.
b) Differentiate BJT and FET.
2. a) With the help of characteristics curves and neat sketches explain the operation of the junction FET.
b) What is Zener diode? Explain.
3. a) What do you understand by feedback in amplifier? Explain it's types. Write two advantages and disadvantages of negative feedback.
b) Draw wien bridge oscillator and explain it's working.
4. a) Explain working of L-C (Hartley Colpitts) oscillator.
b) Explain power amplifier.

CS-221-CBCS

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[2]

5. a) Explain how transistor can be used as a switch. Also discuss it's switching characteristics.
b) Write short note on bistable multivibrator.

6. a) Explain the transfer characteristics of differential amplifier.
b) Draw and explain free running multivibrator.

7. a) Describe Schmitt trigger.
b) Write short note instrumentation amplifier.

8. Write short note on
 - i) Slew rate
 - ii) Operational amplifier
 - iii) Lag and Antilog amplifier
 - iv) Off-set voltage
