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Question Paper Code: 42306

B.E. / B.Tech. DEGREE EXAMINATION, JUNE 2021

Second Semester

Civil Engineering

14UEE206- BASIC ELECTRICAL AND ELECTRONICS ENGINEERING

(Common to Mechanical Engineering)

(Regulation 2014)

Duration: 1.45 hours

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any TEN of the following questions)

1. State moving iron instrument.
2. What are the advantages of electromechanical measuring instruments?
3. What are the different types of DC generator?
4. Why single phase induction motor is not a self starting?
5. Give importance of commutator in D.C machine.
6. Define doping in semiconductor theory.
7. Compare PN junction diode and Zener diode.
8. What is meant by uncontrolled rectifiers?
9. State V-I characteristics of Zener diode
10. What are shift registers?
11. What is a counter?
12. Define RS – flip flop
13. What is meant by modulation?
14. Define numerical aperture.
15. Define the term modulation.

PART – B (3 X 10 = 30 Marks)

(Answer any THREE of the following questions)

16. Explain the terms power and power factor in connection with AC circuits.
17. Explain the working principle of transformer with its construction details.
18. Explain the working of the CE configuration of a BJT.
19. Explain the operation of JK flip flop with suitable logic diagram.
20. Draw the block diagram of an AM transmitter and explain its operation.