

BASIC ELECTRONICS

2nd Exam/ECE/ETV/ECE-II/COMP/CSE/IT/EEE/0664/Jun'2021

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions. 3x5=15

1. Write a short note on Avalanche Breakdown.
2. What are advantages and disadvantages of full-wave rectifiers?
3. Define Drift and Diffusion currents.
4. What is stabilization and its need.
5. Define DC and AC Load Lines.
6. What are advantages and disadvantages of FET's over BJT's?
7. Define H-Parameters and its significance.
8. Define P and N type semiconductor.

SECTION-B

Q2. Attempt any one question. 1x10=10

1. Explain the circuit diagram of Single Stage Transistor Amplifier.
2. Compare CC, CB and CE configurations.
3. Draw and explain energy level diagram of conductors, insulators and semiconductors.
4. Explain voltage divider biasing circuit.
5. Explain working of NPN transistor.