

S.B. Roll No.....

POWER ELECTRONICS
4th Exam/ECE/6163/Feb'2021
(For 2018 batch onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. What do you mean by UPS? Explain different types of UPS.
- ii. Differentiate between continuous and discontinuous current.
- iii. Write in brief about the types of DC drives.
- iv. Differentiate between DIAC and TRIAC.
- v. Draw the V-I characteristics of DIAC and explain its working.
- vi. What is rectifier? List the applications of rectifier.
- vii. Draw and explain the block diagram of dual converter.

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Describe the construction and working principle of UJT with the help of neat diagram. Also list two applications of UJT.
- b. Describe the working of single phase half wave controlled rectifier with load (R-L).
- c. What do you mean by inverter? Explain the principle of operation of series and parallel inverter with the help of waveforms.
- d. Differentiate between step down chopper and step up chopper.