

- Q.25 Explain about light intensity Control circuit. (CO1)

Q.26 Explain Single Phase half wave controlled Rectifier. (CO2)

Q.27 Explain working of Fully controlled Bridge Rectifier. (CO2)

Q.28 Explain operating of Inverter in brief. (CO3)

Q.29 Explain class B type chopper. (CO3)

Q.30 Explain working of cyclo converter. (CO3)

Q.31 Explain working of full wave DC drive in brief. (CO4)

Q.32 Explain Phase Control method of AC Drive. (CO4)

Q.33 Explain concept of SMPS. (CO5)

Q.34 Write short note on HVDC (CO5)

Q.35 Draw the circuit of VJT Relaxation oscillator. (CO1)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain construction and Working of SCR. (CO1)

Q.37 Explain different type of UPS. (CO5)

Q.38 Explain Working of Dual Converter. (CO3)

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**5th Sem / Mechtronics
Subject:- Power Electronics**

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.5 TRIAC has _____ number of terminals (CO1)
 a) 2 b) 3
 c) 4 d) 8
- Q.6 Free wheeling diode is used in _____ load (CO2)
 a) Resistive b) Inductive
 c) Capacitive d) None
- Q.7 A single Phase fully controlled Bridge Rectifier has _____ numbers of SCR. (CO2)
 a) 2 b) 3
 c) 4 d) 5
- Q.8 Cyclo converter is used to control (CO3)
 a) Voltage b) Current
 c) Frequency d) Power
- Q.9 Step up Chopper's increases (CO3)
 a) Voltage b) Current
 c) Power d) None
- Q.10 Which of the following is not type of chopper. (CO3)
 a) Class A b) Class B
 c) Class C d) Class X

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Expand UJT (CO1)
 Q.12 Draw the symbol of SCR (CO1)
 Q.13 Define triggering. (CO1)
 Q.14 Draw the symbol of UJT. (CO1)
 Q.15 Define Duty Cycle. (CO3)
 Q.16 Expand SMPS (CO5)
 Q.17 Define Holding current (CO1)
 Q.18 Define UPS. (CO5)
 Q.19 Define Drive (CO4)
 Q.20 Define Motor. (CO4)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Draw the characteristics of DIAC. (CO1)
 Q.22 Explain two transistor analogy of SCR. (CO1)
 Q.23 Draw the characteristics of TRIAC. (CO1)
 Q.24 Write short note on Heat sink. (CO1)