

BAPURAO DESHMUKH COLLEGE OF ENGINEERING, SEVAGRAM
DEPARTMENT OF ELECTRICAL ENGINEERING

Name of the Course: Electrical drives and their control.
Semester: VI th SEM (CBS)
Academic Year: 2021-22

Course code: BELE603T.
Branch: Electrical Engineering

Assignment no – II

1. Explain the following terms related to relay.
 - a) Pick-up relay
 - b) Reset, drop out
 - c) Operating force
 - d) Restraining force
2. Explain the construction of DC contractor.
3. Explain the reversing of 3 phase induction motor using contactor with the help of diagram.
4. Write a short Note on Motor control centres.
5. Explain the difference between contactor and circuit breakers .what is factor affect.
6. Explain the fundamental difference between an AC and DC Contactor.
7. Give the advantages of electrical traction over other method.
8. Explain the series -parallel control used in traction motor.
9. Explain the speed -time curve of train movement.
10. Explain with the neat block diagram the Digital control of electrical motor.
11. What are the advantages of digital control of electrical motor?
12. State the requirement and mention the drives commonly used in following industrial / domestic appliances.
 - 1) Rolling mills
 - 2) Refrigeration and Air conditioning.
 - 3) Pumps
 - 4) Belt-Conveyors
 - 5) Lathes and grinding machine.
 - 6) Textile mills
 - 7) Lifts
 - 8) Cranes and hoist work.
 - 9) Mines.
 - 10) Paper mills
 - 11) Electrical clock
 - 12) Punching machinery.

The Students should be able to :

CO-4: work on the drives used in the Industry

CO-5: Understand Power Semiconductor based drives.

CO-6: Gain an insight in the working of drives used in traction.

Mapping with CO

Q NO / CO	1	2	3	4	5	6	7	8	9	10	11	12
CO1	X	X	X	X								
CO2					X	X	X	X				
CO3									X	X	X	X