

Q.21 Explain the function of conservator tank in 3-phase transformer. (CO5)

Q.22 Draw a phasor diagram of 1-phase transformer for inductive load. (CO5)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Draw and explain the various characteristics of a d.c. shunt motor. (CO2)

Q.24 Explain the construction, principle and working of 1-phase transformer with neat sketch. (Co5)

Q.25 Draw and explain various connections of a 3-phase transformer. (Co5)

(**Note:** Course outcome/CO is for office use only)

No. of Printed Pages : 4
Roll No.

220931

3rd Sem / Electrical

Subject : Electrical Machines - I

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Armature core of DC machine is made of _____ (CO1)

- a) Silicone steel b) Brass
- c) Cast iron d) Copper

Q.2 Which of the following motor runs at variable speed (CO2)

- a) DC shunt motor b) DC series motor
- c) Both A & B d) None of the above

Q.3 Core of a transformer is made up of silicon steel to reduce (CO5)

- a) eddy current losses b) Copper losses
- c) hysteresis losses d) Mechanical losses

