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Level 4, 2nd Sem. / DVOC (Ref. & Air Cond)
Subject : Electrical Machines (787)

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Multiple choice questions. All questions are compulsory (5x1=5)

Q.1 A transformer core is laminated to

a) reduce hysteresis losses

b) reduce eddy current losses

c) reduce copper losses

d) reduce all above losses

Q.2 Which of the following does not change in a transformer

a) Voltage b) Current

c) Frequency d) All of the above

Q.3 Which winding in transformer has more number of turns?

SECTION-D

Note: Long answer type questions. Attempt any one questions out of two questions. (1x10=10)

Q.19 Explain principle, construction and working of a three phase transformer.

Q.20 Explain principle of operation and construction detail of a single phase transformer.

a) Low voltage winding

b) High voltage winding

c) Primary winding

d) Secondary winding

Q.4 For starting a DC Motor a starter is required because

a) It limits the speed of motor

b) It limits the starting current to a safe value

c) It starts the motor

d) None of the above

Q.5 Which of the following motor will give relatively high starting torque

a) Capacitor start motor

b) Capacitor run motor

c) Split phase motor

d) Shaded pole motor

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (5x1=5)

Q.6 What is auto-transformer.

Q.7 What is current transformer.

Q.8 Yoke of DC motor made of_____

Q.9 Transformer always rated in_____

Q.10 Iron losses in a transformer consist of _____and_____

SECTION-C

Note: Short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

Q.11 What are the advantages of 3 phase motor over single phase motor?

Q.12 List various methods of speed control of DC series motor.

Q.13 Explain Step up and Step down transformer.

Q.14 Give the starting method of DC motor in brief.

Q.15 Explain various type of single phase induction motor in brief.

Q.16 Explain the function of commutator in DC motor.

Q.17 Explain working principle of compound DC motor.

Q.18 Explain the working of universal motor in brief.