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2nd Sem, Level 4 / DVOC (Ref. & Air Cond.)

Subject : Electrical Machines (787)

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Very short questions. Attempt all ten questions. (10x1=10)

Q.1 Write any two applications of 3-phase induction motor.

Q.2 What is step up transformer.

Q.3 What is the purpose of flux in soldering.

Q.4 Write any two applications of DC motor.

Q.5 What is auto transformer.

Q.6 How we can change the direction of 3-phase induction motor.

Q.7 D.C. motor starter is used to_____ starting current.

Q.8 What is current transformer.

Q.9 A transformer works on the principle of _____ induction.

Q.10 A single phase induction motor is_____ starting.

SECTION-B

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

Q.11 Discuss the principle of operation of a three phase induction motor.

Q.12 Discuss the construction, working principle of single phase induction motor.

Q.13 Explain different types of solders in detail.

Q.14 Why is a starter necessary for a D.C. motor.

Q.15 Explain different cooling methods used for transformer.

Q.16 Explain the working principle and construction of Auto transformer.

Q.17 Describe the construction and working of capacitor start and capacitor run motor.

Q.18 Explain installation and testing of AC motors in brief.

SECTION-C

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

Q.19 Describe with neat sketch the working of a 3-point starter for D.C. shunt motor.

Q.20 Write short note on the following :

a) Speed control of AC motors.

b) Potential transformer.