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5th Sem / Electrical

Subject : Power System

Time : 3 Hrs. M.M. : 60

SECTION-A

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

Q.1 A load curve is a plot of

a) load v/s time b) load v/s current

c) load v/s voltage d) load v/s power

Q.2 Power is transmitted from generating stations through:

a) Distribution line

b) Transformer connections

c) Transmission lines

d) None of these

Q.3 Which DC distribution system is the simplest and Cheapest?

a) Ring main b) Interconnected

c) Radial d) All of the above

SECTION-D

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

Q.23 Compare various power generation method: thermal, nuclear, diesel, and hydro.

Q.24 Explain any two tests for locating cable faults in detail.

Q.25 Write detailed notes on :

a) Corona and its effects

b) Demand factor & load curve

Q.4 What is the range of power factor?

a) Always more than 1 b) Always less than 1

c) Equal to 1 d) Greater or less than 1

Q.5 The area under a load curve represents:

a) System voltage b) Energy consumed

c) Peak demand d) Power loss

Q.6 An overexcited synchronous motor operates at :

a) Unity power factor

b) Leading power factor

c) Lagging power factor

d) 0.5 lagging power factor

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define secondary transmission.

Q.8 Corona loss increases with_____ in system voltage.

Q.9 _____ insulators are used for high voltage lines.

Q.10 A.C.S.R. stands for_____

Q.11 The service mains connects the feeder and distributor. (T/F)

Q.12 Define load factor.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What is string efficiency? How can it be improved ?

Q.14 What is Ferranti effect? When does it occur?

Q.15 List four main components of a thermal power plant.

Q.16 Explain the importance of interconnection of power stations.

Q.17 Compare indoor and outdoor substations.

Q.18 What are the requirements of a good transmission line?

Q.19 Write a note on insulators used in overhead transmission lines.

Q.20 List four causes and remedies of low power factor.

Q.21 Define tariffs and what are its objectives.

Q.22 Write four advantages and disadvantages of nuclear power plants.