

No. of Printed Pages : 4
Roll No.

220952

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 Which of the following plants will have the highest capital cost?
a) Nuclear Power Plant b) Diesel Power Plant
c) Thermal Power Plant d) None of these
- Q.2 Power from generating stations is carried over long distance through
a) Distribution lines b) Transmission Lines
c) Substations d) None of these
- Q.3 Which of the following D.C. Distribution system is simplest and cheapest in first cost?
a) Radial b) Inter connected
c) Ring Main d) All of these

Q.4 The value of power factor may be

- a) More than one
- b) Less than one
- c) More or Less than one
- d) None of these

Q.5 The area under the load curve represents

- a) System Voltage b) Current
- c) Energy consumed d) Maximum demand

Q.6 An over excited synchronous motor operates at

- a) Leading power factor
- b) Lagging power factor
- c) Unity power factor
- d) 0.5 lagging power factor

SECTION-B

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

- Q.7 An indoor substation is _____ expensive than outdoor substation.
- Q.8 Load factor of a plant is generally _____ than unity

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- Q.9 Heavier the conductor, smaller will be the sag. (True/False)
- Q.10 Steam turbine converts _____ energy in to _____ energy.
- Q.11 A line which connects the consumer to the supply is called distributor. (True/False)
- Q.12 Power factor is the ratio of _____ to apparent power.

SECTION-C

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

- Q.13 Name & Explain different types of line supports used for overhead lines.
- Q.14 Compare HVAC transmission system VS HVDC transmission system.
- Q.15 Define the following terms:-
a) Power system b) Power factor
- Q.16 What is sag in overhead lines? What is the importance of sag?
- Q.17 What are the requirements of a good Distribution system?

- Q.18 Name all the types of faults occur in overhead system.
- Q.19 What are the functions of Substation?
- Q.20 What are the disadvantages of low power factor?
- Q.21 Define Tariff and Name different types of Tariff.
- Q.22 Discuss any four advantages and disadvantages of Diesel Power Station.

SECTION-D

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

- Q.23 Write a short note on :-
a) Merits & demerits of nuclear Power Plant.
b) Advantages of Interconnection of power stations
- Q.24 What is Substation? Name and explain various components of Pole Mounted Substation?
- Q.25 Describe Murray Loop test for location of Earth fault and short circuit fault in underground cable.