

S. B. Roll. No.....

ELECTRICAL POWER-I
5th Exam/Elect/8520/Nov'24
(For 2018 Batch Onwards)

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Give answer in one line.

15x1=15

- a. How is given phase sequence reversed?
- b. What is A.C.S.R conductor?
- c. Which power plant gives least cost of production?
- d. What is load factor?
- e. What do you mean by load curve?
- f. Name the various sources of energy
- g. What does a turbine do?
- h. For which category two part tariff is employed?
- i. Name the atomic fuel used in atomic power plant
- j. For which distribution 3 phase 4 wire system is commonly used?
- k. What is string efficiency formula?
- l. What is highest transmission voltage in India?
- m. What is the main consideration while designing a distributor?
- n. What is a power factor?
- o. What is the value of transmission voltage suitable over 60 km?

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. What are the advantages of suspension type insulators?
- ii. Name various types of tariffs. Also mention tariff employed for domestic, medium industrial and bulk consumers
- iii. Name various types of faults in overhead power systems
- iv. Define the efficiency of transmission and how it can be improved?
- v. Explain the condition of zero voltage regulation
- vi. Name various types of faults in overhead power systems
- vii. How are bundled conductors different from composite conductor?
- viii. State the factors that are to be kept into consideration while selecting a site for steam power station.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. How does A.C. distribution differ from D.C. distribution?
- b. What is tariff? Give the qualities of good tariff
- c. What is corona? What are its advantages and disadvantages? How it is minimized?
- d. What is a bundled conductor? Why is it used?
- e. What are the disadvantages of low power factor?