

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

ELECTRICAL POWER-II
6th Exam/Elect/5528/Nov'24
(For 2018 Batch Onwards)

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Fill in the blanks.

15x1=15

- a. ELCB provides protection against _____ faults?
- b. Clouds obtain the _____ charge.
- c. Tariff in which rate per unit is fixed is called _____.
- d. The value of fusing factor is always _____ than 1.
- e. Merz price differential relay is used for _____ protection.
- f. Ground wire is used to protect transmission line against _____.
- g. Arc is extinguished at _____ current.
- h. Time graded over current protection is used in _____ feeders.
- i. An isolator is only operated under _____ condition.
- j. Mho relay is used for the protection _____ Lines.
- k. A relay is an _____ Switch.
- l. Insulation failure is caused due to _____.
- m. A lightning arrester is always connected between _____ and earths.
- n. Dielectric strength of air is _____ kv /cm.
- o. When all the three phases are short circuited, it is called _____ fault

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. What are bus bar and its types?
- ii. Different types of faults occur in overhead system.
- iii. Differentiate between fuse and circuit breaker.
- iv. Explain the properties of fuse elements.
- v. Write a short note on MCB.
- vi. What are the internal causes of over-voltages?
- vii. Define tariff? What are its objectives?
- viii. What is relay? Give classification of relay.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. Draw and explain the working of SF₆ circuit breaker.
- b. Describe in detail the Merz price system of protection for a 3-phase star-delta transformer.
- c. Explain Horn gap lightning arrester with suitable diagram.
- d. Explain the principle and working of buchholz relay. Where is it used and why?
- e. What is power tariff? Give its various types.

P.S.B.T.E.&I.T.

