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Roll No.....

Branch : Electrical Engg.

Subject : Electrical Power II/Power-II

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note : Multiple choice questions. All questions are compulsory. (10x1=10)

Q.1 What is the full form of ELCB?

- a) Electric leakage circuit breaker
- b) Electric leakage current breaker
- c) electrical leakage circuit breaker
- d) Electric line circuit breaker

Q.2 The material used for fuse elements, must have which properties?

- a) Low melting point
- b) Low ohmic loss
- c) High conductivity
- d) All of the above

Q.3 Which among the following happens in a low power factor?

- a) Large kVA rating of the equipment
- b) Greater conductor size
- c) Reduced handling capacity of the system
- d) All of the above

Q.4 Which of the following materials is used as a filler in HRC fuse?

- a) Quartz
- b) Plaster of paris
- c) Marble
- d) All of the above

Q.5 What is the full form of OCB?

- a) Over current breaker
- b) Over circuit breaker
- c) Oil circuit breaker
- d) Oil current breaker

Q.6 The Mho relay is normally used for the protection of

- a) Long transmission lines
- b) Medium transmission lines
- c) Short transmission lines
- d) None of the above

Q.7 Domestic consumers are charged?

- a) Flat demand tariff
- b) Block rate tariff
- c) Flat ratetariff
- d) Off peak tariff

Q.8 Ground wire is used to protect transmission lines against _____

- a) Direct lighting strokes
- b) Leakage current
- c) Heating effects
- d) All of the above

Q.9 The ratio of average load to the maximum load is called _____

- a) Peak factor
- b) Load factor
- c) Inverse factor
- d) Power factor

Q.10 Which of the following is a type of circuit breaker?

- a) Air break circuit breaker
- b) Air blast circuit breaker
- c) SF₆ circuit breaker
- d) All of the above

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Section B

Note: Objective types Questions. All Questions are compulsory. (10x1=10)

- Q.11 What is a utilization factor?
- Q.12 What is the full form of HRC?
- Q.13 what do you mean by symmetrical faults?
- Q.14 Define the term neutral wire.
- Q.15 Which fault is considered as most dangerous in power system.
- Q.16 Explain the two part tariff.
- Q.17 Mention any two overhead faults.
- Q.18 What is the function of relay?
- Q.19 What is load factor?
- Q.20 Double line fault is a type of which kind of fault?

Section-C

Note: Short answer type Questions. Attempt any twelve Questions out of fifteen Questions. (12x5=60)

- Q.21 Discuss various types of faults in transmission lines.
- Q.22 What are the properties of a lightning arrestor?
- Q.23 Distinguish between earth wire and neutral wire.
- Q.24 Define power factor, average load and connected load.
- Q.25 Calculate the total units consumer per year by a consumer if its maximum demand is 1500 kW and annual load factor is 60%.
- Q.26 Discuss various types of air blast circuit breaker?
- Q.27 What is Bus-Bar and its types?

- Q.28 Explain different types of faults occur in overhead system.
- Q.29 Explain causes of over voltage in overhead lines.
- Q.30 What are the main factors involved in fixing a tariff?
- Q.31 Discuss the constructional features of OCB/
- Q.32 What is the purpose of power line carrier communication?
- Q.33 Distinguish between a circuit breaker and a fuse.
- Q.34 Explain the difference between switch, isolator and circuit breaker.
- Q.35 Define tariff? What are its objectives?

Section-D

Note: Long answer Questions. Attempt any two Questions out of three Questions. (2x10=20)

- Q.36 How a three-Phase star-delta transformers is protected using the Merz-price system.
- Q.37 Explain construction, principal and working of thermal relays with the help of neat diagram.
- Q.38 What is earthing? Discuss different methods of Earthing? Explain system earthing and equipment earthing.