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120963/30963

6th Sem. / Electrical Engg.

Subject : Power-II / Electrical Power-II

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: Objective type questions. All questions are compulsory (10x1=10)

Q.1 Faults occurs because of _____ failure.

Q.2 Double line fault is a type of _____fault.

Q.3 Rating of a circuit breaker is given in _____

Q.4 ELCB Stands for _____.

Q.5 What is the purpose of fuse.

Q.6 Define Earthing.

Q.7 Voltage in single phase is _____ Volts.

Q.8 The fusing factor is always greater than one. True/Flase.

Q.9 A Buchholz relay operates on the principle of _____.

Q.10 A lightning arrestor in connected between _____ and_____.

SECTION-B

Note: Very short answer type questions. Attempt any ten questions out of twelve questions. (10x2=20)

Q.11 What is the difference between isolator & circuit breaker.

Q.12 Define making & breaking capacity of circuit breakers.

Q.13 Which relay is used for the protection of transformer.

Q.14 Explain arc extinguish process in circuit breakers.

Q.15 Define static relay.

Q.16 Define lightning.

Q.17 Explain two part tariff.

Q.18 Define surge diverter.

Q.19 Explain system earthing as per indian electricity rules.

Q.20 Name the different protection scheme available for transformer.

Q.21 Name various types of faults in underground system.

Q.22 What are the main characteristics of relays.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

Q.23 What are the merits & demerits of oil circuit breaker over air blast circuit breaker.

Q.24 Write a short note on maintenance of circuit breakers.

Q.25 What are the internal & external causes of over voltages in a power system.

Q.26 What are the requirements of a good lightning arrestors.

Q.27 Explain the impedance protection scheme.

Q.28 Explain with the help of diagram the terms arc voltages, restriking voltages and recovery voltage.

Q.29 Explain with the help of neat diagram the working of a thermal relay.

Q.30 What are the various types of faults on overhead transmission line.

Q.31 Describe the construction, principle of operation and application of a) Rod gap b) Expulsion type lightning arresters.

Q.32 What are the desirable characteristics of a tariff?

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

Q.33 Explain with neat diagram a single pressure puffer type sulphur hexafluoride circuit breaker.

Q.34 Draw a neat sketch of an induction type over current relay and describe its operation.

Q.35 Describe in detail the Merz Price system of protection for a 3-phase star-Delta transformer.

Q.36 Explain different types of tariffs in detail . Mention the advantages and disadvantages of each system.