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5th Sem / Electrical Engg.
Subject:- Elect & Elx. Engg.

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Following power plant has instant starting (CO1)
a) Nuclear power plant b) Hydro power plant
c) Diesel power plant d) Both (B) and (C)

Q.2 Hydroelectric power plant is best suited as: (CO2)
a) Base load plant b) Stand by plant
c) general purpose plant d) All of these

Q.3 Load factor value is (CO2)
a) always less than 1 b) always greater than 1
c) Unity d) None of these

Q.4 Top conductor of EHV Transmission line is: (CO3)
a) Neutral Conductor b) Earth Conductor
c) Phase Conductor d) None of these

Q.5 _____ is the main consideration while designing a distributor. (CO5)
a) current carrying capacity
b) voltage drop
c) A and B both

d) None of above

Q.6 Sag in the Line is given by : (CO4)
a) $WL^2/8T$ b) $W^2L/8T$
c) $WT^2/8L$ d) $LT/8L$

Q.7 Cooling Tower is not used in (CO1)
a) Thermal power plant
b) Nuclear Power Plant
c) Hydroelectric power plant
d) Gas power station

Q.8 Insulator used at dead end or at crossing is (CO3)
a) Pin type insulator b) Strain type insulator
c) Real insulator d) Egg Insulator

Q.9 Most reliable Distributor scheme is : (CO4)
a) Ring main system b) Interconnected system
c) Radial system

Q.10 _____ is a conventional Energy Sources. (CO1)
a) Coal b) Diesel oil
c) Wind d) both A and B

SECTION-B

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

Q.11 Define Demand factor (CO2)

Q.12 If Diversity factor is high, the cost of generation is _____ (CO2)

Q.13 Interconnection of power plants_____economy. (CO2)

Q.14 Expand ACSR (CO3)

Q.15 Skin effect is more pronounced in DC (T/F) (CO3)

Q.16 Armoring is used in the cable to_____ of cable. (CO5)

Q.17 The outdoor substation are costlier than indoor substation in initial cost (T/F) (CO6)

Q.18 An over excited synchronous motor operates at _____ power factor. (CO7)

Q.19 String efficiency =_____/_____ (CO4)

Q.20 Penstock is used in gas power stations(T/F) (CO1)

SECTION-C

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

Q.21 Explain the significance of load and diversity factor. (CO2)

Q.22 Explain the significance of Load curve of Power station. (CO2)

Q.23 Enlist Five merits and Demerits of Non-Conventional energy sources. (CO1)

Q.24 Define Peak load plant. (CO2)

Q.25 Explain the advantages of transmit electric power at high transmission voltage. (CO4)

Q.26 Explain the different types of insulators used in Transmission and distribution of power (CO3)

Q.27 Define corona. Explain the method of reducing corona. (CO4)

Q.28 Compare the outdoor and indoor substations. (CO6)

Q.29 Explain the transposition of conductors. (CO4)

Q.30 Explain the points of site selection that should be in mind while installing Nuclear power plant. (CO1)

Q.31 Explain the significance of power factor in power system. (CO7)

Q.32 Differentiate Ring main and interconnected system. (CO5)

Q.33 Enlist the faults occurs in overhead and underground lines. (CO5)

Q.34 Define plant capacity factor. (CO2)

Q.35 Describe the present scenario of energy in India. (CO1)

SECTION-D

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

Q.36 Explain the working of Hydroelectric Power plant with the help of a labeled diagram and points of its site selection. (CO1)

Q.37 Describe the concept of sag. Explain the significance and factors affecting the Sag. (CO4)

Q.38 Explain the Murray loop test For fault finding in Underground cables. (CO5)

(**Note:** Course outcome/CO is for office use only)