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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER - 2024

ELECTRICITY GENERATION TRANSMISSION AND DISTRIBUTION

[Maximum Marks:75] [Time: 3 Hours]

PART - A

I. Answer all the following questions in one word or one sentence. Each question Carries 'one' mark.

 $(9 \times 1 = 9 \text{ Marks})$

		Module Outcome	Cognitive level
1	The device in steam power plant which heats the feed water on its	M1.01	R
	way to boiler by deriving heat from the flue gases is called		
2	What is the function of control rods in nuclear reactors?	M1.01	R
3	Define diversity factor.	M2.01	R
4	What is TOD tariff?	M2.04	R
5	The expression for sag when supports are at equal level is	M3.02	R
6	What is Ferranti effect in transmission line?	M3.03	R
7	Write the expression for string efficiency for a string of three	M4.02	R
	suspension insulator.		
8	State the purpose of armouring in UG cable.	M4.03	U
9	Draw the symbol of current transformer used for single line	M4.04	R
	diagram of substation.		

PART - B

II. Answer *any eight* questions from the following. Each question carries 'Three' marks.

(8 x 3 = 24 Marks)
Module Outcome Cognitive level

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1	Write the importance of surge tank in hydroelectric plant with a neat sketch.	M1.01	U
2	List the factors to be considered for the selection of site for a nuclear Power station.	M1.01	R
3	Draw the schematic arrangement of diesel power plant.	M1.01	R
4	Water for a hydro-electric station is obtained from a reservoir with a head of 150m. Calculate the electrical energy generated per hour per cubic meter of water if the hydraulic efficiency be 0.8 and electrical efficiency 0.9.	M1.03	A
5	Define tariff and give any three objectives of tariff.	M2.04	U
6	A consumer has a maximum demand of 250kw at 50% load factor. if the tariff is Rs 100 per kw of maximum demand plus 30 paisa per kwh. find the annual charge.	M2.04	A
7	What is skin effect in transmission line, write any two ways to reduce skin effects.	M3.03	U

8	Sketch the single line diagram of ring main distribution system.	M4.01	U
9	Describe three methods for improving string efficiency.	M4.02	U
10	Draw the construction of 3 conductor UG cable and label its parts.	M4.03	R

PART - C

Answer all the questions from the following. Each question carries 'seven' marks.

(6 x 7 = 42 Marks)

Module Outcome Cognitive level

III. Draw the layout of steam power station with indicating all equipment and explain its working. OR IV. Explain the concept of interconnected grid system and write the advantages of interconnected grid system. V. Draw a daily load curve of power station, label the base load, maximum load in it and write importance of load curve. OR VI. Explain the various cost involved when determining total cost of electrical energy generated. VII. Explain the methods adopted for power factor improvement in distribution systems. OR VIII. List the different types of tariff and explain the following tariffs with their advantages and disadvantages. (i)Two part tariff (ii)Flat rate tariff (iii)Block rate tariff IX. Draw the single line diagram of a typical AC power supply scheme with electrical power generation, transmission and distribution and explain each section. OR X. Write the advantages and disadvantages of AC and DC transmission of electric power. XI. A transmission line has a span of 200m between level supports. The conductor has a cross sectional area of 2cm² the tension in the conductor is 2500kg. If the specific gravity of the conductor material is 10gm/cm³ and wind pressure is 1.5kg/m length. Calculate the sag. OR XII. Two towers of height 30m and 90m respectively support a transmission line conductors at water crossing. The horizontal distance between the towers is 500m. If the tension in the conductors at water crossing. The horizontal distance between the towers is 500m. If the tension in the conductor is 1600kg and weight of conductor is 1.5kg/m, Find the minimum clearance of the conductor and water. Assume bases of the towers can be considered to be at the water level. XIII. Explain with single line diagram the various DC distributors system scheme based on feeder connection. OR XIV. Explain with suitable figures the methods of laying underground dates.				
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