Code: C16 EE-402

6441

BOARD DIPLOMA EXAMINATION

JUNE - 2019

DIPLOMA IN ELECTRICAL AND ELECTRONICS ENGINEERING POWER SYSTEMS -I (G& P)

FOURTH SEMESTER EXAMINATION

Time: 3 Hours Total Marks: 80

PART - A $(3m \times 10 = 30m)$

Note 1:Answer all questions and each question carries 3 marks

2:Answers should be brief and straight to the point and shall not exceed 5 simple sentences

- 1. List the different methods of Energy conservation
- 2. State the method of generation of Geo Tkermal Power plant
- 3. State the function of Steam turbine in thermal power station
- 4. State the need of Spill gates in Hydroelectric Power Station
- 5. List any three properties of Nuclear Fuels used in Nuclear Power Station
- 6. List the basic Components of a Wind Mill
- 7. List various Charges in Power station
- 8. Define i) Are Voltage ii) Recovery Voltage
- 9. List the possible Faults in a Transformer
- 10. State the reasons for the Cause of Surges

PART - B $(10m \times 5 = 50m)$

Nie 1:Answer any five questions and each carries 10 marks

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- 2:The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer
- 11. A) Mention any ten factors affecting the selection of site for Thermal Power Station
 - B) State the functions of Super Heater and Air Pre-heater with neat sketches
- 12. Explain the working of Hydroelectric Power Station with neat diagram
- 13. Explain the working of a Moderate type Nuclear Power Station with neat block diagram

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 is shunted across the n

 Determine the capacitant

 of Axial blast Air Circuit Breaker w

 Arth Fault protection for Rotor of an Alternat

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 Explain the Construction and working of Horn gap Lightening Arrester With neat sketch

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 - 16. Explain the working of Axial blast Air Circuit Breaker with neat
 - 17. Explain the Earth Fault protection for Rotor of an Alternator with neat
 - 18A. Explain the effects of load factor and diversity factor on the cost of

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