

Register No.:

LHG

EEE

12

363

Register No.:

October 2023

Time - Three hours
(Maximum Marks: 100)

[N.B.

1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART - A

1. Name the conventional methods of power generation.
2. Define Demand factor.
3. Write about economic choice of transmission voltage.
4. Classify Transmission lines.
5. List the types of FACTS controllers.
6. What are the Routine tests to be conducted on insulators?
7. State the essential features of switchgear.
8. Name some fuse element materials.
9. State the fundamental requirements of protective relaying.
10. What is system grounding?

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PART - B

11. (a) Draw the schematic of a Pumped Storage Scheme and explain.
(Or)
(b) Explain hybrid renewable energy systems.
12. (a) Draw the typical layout of AC power supply scheme.
(Or)
(b) Draw and explain HVDC converter station.
13. (a) Explain Strain, Shackle and Stay insulators with sketches.
(Or)
(b) With neat sketch, explain about Gas pressure cables. State its advantages and disadvantages.
14. (a) Explain the working principle of air circuit breaker.
(Or)
(b) What is a surge? Explain the internal causes of over voltage with sketches.
15. (a) Classify relays based on timing characteristics and explain.
(Or)
(b) Explain the methods of neutral grounding.
