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| | Reg. No. : |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G | Question Paper Code: 11214 |
| M.E./M | I.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023. |
| | Elective |
| | Power Systems Engineering |
| | PS 4006 — POWER SYSTEM RELIABILITY |
| | (Regulations 2021) |
| Time: Three hour | |
| Time . Timee nour | Answer ALL questions. |
| | PART A — $(10 \times 2 = 20 \text{ marks})$ |
| 1. List out the | two main aspects for deciding reliability in power system. |
| 3. Mention any | e main advantages of computing reliability cost? two points that are not indicated by the loss of load expectation. Energy Index of Reliability be obtained? |
| 5. List out the | parameters of generating capacity |
| | mean by derated states in generation model? |
| | data be classified in deterministic and stochastic data collection? |
| | endent and independent outages? |
| | importance of load and energy oriented indices? |
| 10. Why probab | ility distribution of reliability indices computation is required? PART B — (5,× 13 = 65 marks) |
| 11. (a) Explai | n in detail the functions of system security for power system |
| reliabi | |
| d) Di | Or |
| | ss in detail about the functional zones and hierarchical levels of ment in power system reliability. |
| | |
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