

- Q.8 The main advantage of Smart Grid over a traditional grid is its ability to ___ and ___ itself (CO1)
- Q.9 The integration of renewable energy sources like ___ and ___ improves the sustainability of Smart Grid. (CO1)
- Q.10 ___ meters allow real-time monitoring of electricity consumption in Smart Grids. (CO4)
- Q.11 Smart Grids only support fossil fuel-based power plants. T/F (CO2)
- Q.12 Distributed Generation increases reliance on centralized power stations. T/F. (CO3)

SECTION-C

- Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)
- Q.13 Discuss the concept of a Smart grid. (CO1)
- Q.14 What are the advantages of Smart grid. (CO1)
- Q.15 Discuss about the components of Smart grid Systems. (CO2)
- Q.16 Explain the major benefits of implementing a Smart grid system. (CO2)

- Q.17 Explain the Communication technology of Smart grid. (CO2)
- Q.18 Discuss the main goal of Smart grid. (CO3)
- Q.19 What is the concept of Distributed generation.(CO3)
- Q.20 Write the challenges of Distributed generation System. (CO3)
- Q.21 What is the key function of SCADA in Smart grid. (CO4)
- Q.22 Explain the Electrical energy storage systems.(CO4)

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)
- Q.23 Compare the Conventional grid and Smart grid Systems in detail. (CO1)
- Q.24 Explain the function of Smart meter and its benefits. (CO2)
- Q.25 Discuss the Distributed Generation in detail and explain its advantages. (CO4)