



7. The diesel plants are mainly used as \_\_\_\_\_ CO1- U  
 (a) Peak load plants (b) Base load plants  
 (c) Standby power plants (d) None of these
8. In the \_\_\_\_\_ heat transfer takes place between the exhaust CO1- U  
 gases and cool air  
 (a) Intercooler (b) Re-heater (c) Regenerator (d) Compressor
9. Photovoltaic solar energy conversion system makes use of CO1- U  
 (a) fuel cell (b) solar cell (c) solar pond (d) None of the above.
10. Solar cells are made of CO1- U  
 (a) silicon (b) germanium (c) silver (d) aluminium.

PART – B (5 x 2= 10 Marks)

11. Classify the types of ash handling system? CO1- U
12. Classify about Mechanical Stokers? CO1- U
13. Explain about Nuclear Fusion CO1- U
14. Describe the effect of inter cooling in a gas turbine plant. CO1- U
15. Explain demand factor. CO1- U

PART – C (5 x 16= 80 Marks)

16. (a) Explain the layout of Steam power plant and their advantages, CO1- U (16)  
 disadvantages, application.  
 Or  
 (b) Explain with line diagram of coal preparation in thermal CO1- U (16)  
 power plant
17. (a) Describe the different types of over feed stokers and discuss CO1- U (16)  
 its merits and demerits of each over others  
 Or  
 (b) What is ESP? Explain with a neat sketch and Write the CO1- U (16)  
 advantages and disadvantages of ESP
18. (a) Explain the Construction and working of nuclear power plant CO1- U (16)  
 with a layout.  
 Or  
 (b) Explain the working of boiling water reactor with a neat CO1- U (16)  
 sketch

19. (a) How do you select engine for a diesel power plant? Draw a diesel power plant and explain its major components CO1- U (16)
- Or
- (b) Explain with a neat sketch of various arrangements of gas turbine power plant layouts. CO1- U (16)
20. (a) Explain the principle , construction and working of a wind power plant and List out the advantages and disadvantages CO1- U (16)
- Or
- (b) Explain the pollution control technologies including waste disposal options for nuclear power plant. CO1- U (16)

