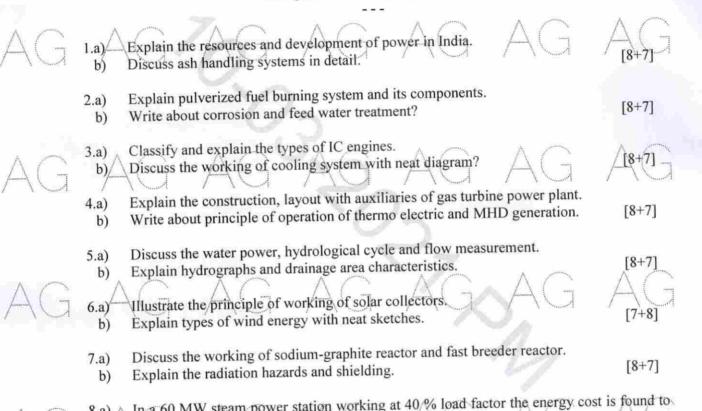
R16/R15/R13/R09 Code No: 137FT/127GP/117GP/57023 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, March - 2021 POWER PLANT ENGINEERING (R16 - Mechanical Engineering; R15 - Mechanical Engineering; R13 - Mechanical Engineering; R09 - Mechanical Engineering) Max. Marks: 75

Time: 3 Hours

Answer any Five Questions All Questions Carry Equal Marks



In a 60 MW steam power station working at 40% load factor the energy cost is found to 8.a) be 5 paise /kWh Calculate the cost of energy of the power station load factor is improved by 50 %. Due to increased energy generation the fuel cost increases the annual generation cost of 6%. [8+7]

Discuss pollutants and pollution standards. b)