

Ref No: Ex/MET/ES/B/Ch.E/T/223/2023

B.E METALLURGICAL AND MATERIAL ENGG. EXAMINATION, 2023
(2nd Year, 2nd Semester)

FUELS AND COMBUSTION

Time; Three hours

Full Marks: 100

Answer any five of the following questions

1. Explain coal preparation 20
2. Describe about in-situ origin and drift origin of coal. 20
3. How producer gas is manufactured using mixed blast with special reference to the reaction occurring in gas producer? 20
4. What is coal petrology? Describe different petrological components of coal. 20
5. Describe beehive coke oven. Describe the mechanism for production of coke from coal during high temperature carbonization process. 10+10
6. Describe Fluidized Bed Catalytic Cracking process. 20
7. (a) Describe about coal washing.
(b) Describe different method to classify crude petroleum 10+10