

B.E METALLURGICAL AND MATERIAL ENGG. EXAMINATION, 2018

(2nd Year, 2nd Semester)

FUELS AND COMBUSTION

Time; Three hours

Full Marks:100

Answer any ten of the following questions

1. Explain coal preparations. 10
2. Discuss how producer gas is manufactured using mixed blast with special reference to the reaction occurring in gas producer. 10
3. Classify crude petroleum based on IOP characterization factor. Mention name, and uses of petroleum products obtained from ADU &VDU. 10
4. Describe the process details and reaction occurring in different zones of Blast Furnace. 10
5. Discuss about origin of coal. 10
6. How proximate analysis is done in laboratory? 10
7. Describe Beehive Coke Oven. 10
8. Explain about Petrological components of Coal 10
9. Explain Secondary Refining Process of Petroleum. 10
10. Write short note on Low Temperature Carbonization of coal. 10
11. Define Pour Point, Cloud Point, Octane Number and Cetane Number. 10
12. Describe Seyler's coal classification chart with diagram. 10