Ref No: Ex/Met/ChE/T/226/2017

B. MET. ENGG. 2nd YR. 2nd SEM EXAMINATION, 2017

Subject: FUEL AND COMBUSTION Time: Three Hours Full Marks: 100

Answer any five of the following questions

1. Explain Sayler's coal classification chart.

20

- Describe the process details and reaction occurring in different zones of Blast Furnace.
- 3. Explain coal processing.

20

- 4. Discuss how producer gas is manufactured using mixed blast with special reference to the reaction occurring in gas producer.
- 5. a) Mention different methods used to classify Crude Petroleum.

8+12=20

- b) Describe Secondary Refining Process of Crude Petroleum.
- 6 Classify crude petroleum based on IOP characterization factor. Mention name, boiling points and uses of petroleum products obtained from ADU &VDU.
- 7 Write short notes on (any four)

5X4 = 20

- a. Petrological Components of Coal
- b. Pipe Still Heater.
- c. Low temperature Coal Carbonization.
- d. Low Temperature Oxidation of coal.
- e. "Derived Theory" and "In-Situ Theory" of coal.