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MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
(A constituent unit of MAHE, Manipal)

**VII SEMESTER B.TECH (CHEMICAL ENGINEERING) MAKE UP
 EXAMINATIONS (OPE), FEBRUARY 2022**

SUBJECT: PE VII – FUELS AND COMBUSTION [CHE 4063]

Time: 75+10 minutes

(22/02/2022, AN)

Max. Marks:20

Instructions to Candidates:

- † **Answer all the questions.**
- † **Write specific and precise answers**

PART B

1A.	Explain the different combustion techniques with suitable examples.	4
1B.	Explain the theories on origin of petroleum? Explain the points in favour of these theories.	3
1C.	Explain the petrography of coal.	3
2A.	Explain the production of water gas and carburetted water gas	4
2B.	Define the terms: Viscosity index, Smoke point, Octane Number	3
2C.	Describe the three-stage crude oil distillation. Explain the boiling range of the fractions from each tower	3