#### Ex/SC/GEOL/UG/DSE/TH/03A/2022

Full Marks · 40

### c) Van-Krevelen Evolution Path Diagram

### PART II (20 Marks)

Answer **Q.6** and *any three* questions from the rest.

Each question carries same marks.

6. Write short note on (any **two**):

 $2.5 \times 2 = 5$ 

- a) Grey-King Carbonization Assay.
- b) Moisture in the coal.
- c) General characteristics of Gondwana Coal.
- 7. Define the Lithotypes of coal. Briefly describe different lithotypes and their constitutive microscopic elements.

1+4

- 8. How does the peat-forming plant community and nutrient supply control the nature of coal facies. 5
- Differentiate between peatification and coalification.
   Write an account of the gasses expelled during coalification.
- 10. Write a short note about the different types of Sulfur in coal? Why the Sulfur contains of a coal is measured always?
- 11. Write down the working principle of bomb calorimeter. What do you understand by 'coal in dmmf basis'? 3+2
- 12. Describe briefly the Syler's classification of coal. 5

# B. Sc. (Geological Sciences) Examination, 2022

(3rd Year, 2nd Semester)

#### FUEL GEOLOGY

#### PAPER - DSE/TH/03A

Time · Two hours

(Use a separate Answer script for each Part)

## PART I (20 Marks)

### (Answer Q1 and any three from the rest) $(4\times5=20)$

1. Match the following:

OILFIELD STATE

a) Ashok Nagar
i. Gujarat

b) Mangala
ii. Andhra Pradesh
c) Ravva
iii. Assam
d) Mehasana
iv. West Bengal
e) Digboi
v. Rajasthan

- 2. Discuss briefly the petroleum systems of Bombay offshore Basin.
- 3. How does salt tectonics help in fomation of hydrocarbon trap?
- 4. How do you classify the source rocks of petroleum?
- 5. Write a short note (any two):
  - a) Rock-Eval pyrolysis
  - b) Stratigraphic Traps

[ Turn over