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5 SEM TDC GEO M 5

2018

(November)

GEOLOGY

(Major)

Course : 505

[Fossil Fuel (Coal and Petroleum)]

Full Marks : 48

Pass Marks : 19/14

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

GROUP—A

(Coal Geology)

(Marks : 18)

1. Write on any *two* of the following : 4×2=8

(a) Periods of coal formation

(b) Coal bed methane

(c) Chemical composition of coal

2. Write a note on distribution of coal in India. 8

Or

Write a note on distribution of coal in Northeast India. Also mention the geological horizons where coals are found. 5+3=8

3. (a) What is a grade of coal? 1

- (b) Fill in the blank : 1

The amount of energy produced by combustion of coal is known as its ____.

GROUP—B

(Petroleum Geology)

(Marks : 30)

4. Write notes on any two of the following : 4×2=8

(a) Source rock

(b) Reservoir rock

(c) Cap rock

5. Write about the scope of petroleum geology. Also discuss about the role of crude oil and natural gas in present-day society. 4+4=8

Or

Discuss about the petroliferous basins of India. 8

6. Write explanatory notes on any *two* of the following : 4×2=8

(a) Migration of petroleum

(b) Physical properties of crude oil

(c) Origin of petroleum

7. Write briefly on shale gas and oil-shale. 4

8. (a) In which oil field of Assam petroleum is found in basement rock? 1

(b) What is a trap? 1
