5 SEM TDC GEO M 5

2017

(November)

GEOLOGY

(Major)

Course: 505

[Fossil Fuel (Coal and Petroleum)]

Full Marks: 48

Pass Marks: 19/14

Time: 2 hours 2019 (11)

The figures in the margin indicate full marks for the questions

GROUP—A

(Coal Geology)

4. Write briefly on (18: Marks : 18) or villewing ;

- 1. Write on any two of the following: $4\times2=8$
 - (a) Coalfields of Assam
 - (b) Ultimate analysis of coal
 - (c) Utilization of coal

2. Write a note on the origin and occurrence of coal.

8

Or

Describe the chemical composition of coal and also write about the grade of coal.

8

- 3. Write correct answer of the following: 1+1=2
 - (a) Name the highest rank of coal.
 - (b) Which of the following is extracted from coal bed?
 - (i) Methane
 - (ii) Ethane
 - (iii) Propane

GROUP-B

(Petroleum Geology)

(Marks : 30)

4. Write briefly on any two of the following:

4×2=8

- (a) Crude oil
- (b) Natural gas
- (c) Shale oil

Write	about	the	chara	cteristics	and
importa	ance of so	urce r	ock, re	servoir ro	ck and
cap roo	ck.				
		C	r		•
	importa		importance of source r cap rock.	importance of source rock, re-	

8

Write a note on the origin, migration and entrapment of petroleum.

8

- 6. Write notes on any two of the following: 4×2=8
 - (a) Classification of traps
 - (b) Oil-bearing horizons of North-East India
 - (c) Scope of Petroleum Geology
- 7. Describe briefly about the petroliferous basins of India.

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8. Write the correct answer of the following:

1+1=2

- (a) In which year was petroleum first produced in Asia?
- (b) Which of the following could be an effective cap rock?
 - (i) Giriyan clay
 - (ii) Tipam sandstone
 - (iii) Dihing boulder bed

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