## 5 SEM TDC GEO M 5

2019

(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 briefly on any two of the following:

4×2=8

- (a) Mode of occurrence of coal
- (b) Proximate analysis of coal
- (c) Utilization of coal

2.	Write a note on the origin of coal.  Or	8
	Write briefly on the geology of the Makum Coalfield of Assam.	8
3.	(a) What is the rank of coal?	1
	(b) Fill in the blank:	1
	Amongst all the elements present in coal, is the chief constituent which increases with the maturity of coal.	
	GROUP—B	
	( Petroleum Geology )	
	( <i>Marks</i> : 30 )	
4.	Write explanatory notes on any two of the following:	2=8
	(a) Characteristics of reservoir rock	
	(b) Types of reservoir rock	
	(c) Chemical composition of crude oil	
5.	about the role of palaeontology in search of petroleum deposit.	4=8
	Or	
	Describe geology and structure of either Digboi or Moran Oilfields.	8

8

6.	Write explanatory notes on any <i>two</i> of the following:	=8
	(a) Assam-Arakan basin	
	(b) Classification of traps	
	(c) Shale gas and shale oil	
7.	Write a note on Bombay Offshore Oilfield.	4
	Or	
	Describe the primary migration of petroleum with proper sketches.	4
8.	Answer the following as directed:	
	(a) Digboi Oilfield was discovered in the year	
	( Fill in the blank )	1
	(b) What is kerogen?	1

\* \* \*