1205E256

Candidate's Seat No :_____

MSc (Integ) in App Geo Sem 5 Examination

AGL - 302

Fuel Geology

Time: 2-00 Hours

May 2022

[Max. Marks: 50

Instructions: All questions in **Section**—I carry equal marks.

Attempt any **Three** questions in **Section-I.**Questions I in **Section-II** is **COMPULSORY.**

	Section-i	
Q-I	A Describe in detail the coal formation process and major coal forming periods with emphasis on environmental conditions and ideal time	7
	B Describe in detail coal classification based on its genesis	7
<u></u>	A Describe in detail proximate analysis and its significance	7
Q-II	A Describe in detail proximate alialysis and its significance	,
	B Write a note on coal quality based on its chemical, physical and performance properties	7
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Q-III	A write a detailed note on ranks and grades of coal. Also write 10 uses of coal	7
	B Explain in detail – on what major factors does the formation of coal depend upon (explaining each factor)	7
Q-IV	A Write a detailed note on all the coal litho types	7
	B Describe in detail ultimate analysis and its significance	7
		-7
Q-V	A write a detailed note on coal liquefaction and gasification process	7
	B write a detailed note on what is CBM, its formation, characteristics, storage and significance	7
Q-VI	A write a note on the Indian scenario on CBM	7
	B write in detail on all the important pre-requisites of metallurgical coke	7
Q-VII	A Explain in detail the methods of prospecting and exploration of atomic minerals	7
	B explain in detail the formation of crude oil and natural gas	7
	A explain the eleccification framework of petroloum resources	7
Q-VIII	A explain the classification framework of petroleum resources	'
	B explain all the sources of radioactivity and the major atomic minerals of the world	7

Section II

	QIX MCQs	8
1)	There are theories on the formation of coal	
,	a) 1 b) 3	
	c) 2 d) 4	
2)	Kerogen isa) insoluble	
	b) soluble c) both	
	d) None	
3)	cap rock should have very high permeability a) true	
	b) false c) any	
	d) both	
4)	gas-oil contact lies above the water-oil contact a) true	
	b) false c) any	
	d) both	
5)	Dead organisms are transformed into petroleum and natural a) Absence of air	gas in
	b) presence of airc) Presence of sun light	
	d) none	
6)	Useful substances obtained from petroleum and natural gase	es are called
	a) Petroleum products b) Biochemicals	
	c) petrochemicals d) chemicals	
	The layer containing petroleum oil and gas isa) Above water	
	b) Below water c) Between sand and water	
	d) Below sand	
	Boiling point of petrol is Below 10 C	
b)	35C to 70C	
	170C to 250C	