Name:

UPES

: IV

: 03 hrs

Semester

Max. Marks : 100

Time

Enrolment No:

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2019

SECTION A [Attempt All Questions] = 20 Marks

Programme Name: GSE

Course Name: Economic GeologyCourse Code: GSEG 303Nos. of page(s): 02Instructions:: 02

	SECTION A [Attempt An Questions] -20 Warks		
S. No.		Marks	CO
Q 1	Define Ore, Mineral, Radioactive mineral and Evaporitic Minerals.	1X4	CO1
Q 2	Define the tonnage and grade of Ore.	2+2	CO2
Q 3	Illustrate the type of metamorphism and SKARNS.	2+2	CO2
Q 4	What are the ore minerals of iron and copper?	2+2	
Q 5	Define any four physical properties of minerals.	4	
	OR Define the coal types.	2+2	CO2
	SECTION B [Attempt All Questions]=40 Marks		
Q 6	a- Explain the residual mineral segregation with example.b- Discuss the geological distribution of copper ore deposits in India.	5 5	CO3
Q 7	Write a short note on:i-Bauxite oreii-Secondary mineral depositsiii-Veins depositsiv-Gossan Bedv-Kimberlite	2X5	CO3
Q 8	Discuss in brief, the origin and occurrences of gold in India.	10	CO3
Q 9	Explain the formation process of coal. Relate the calorific value and rank of coal. OR Differentiate between coal gasification and coalification.	5+5 10	CO4
	SECTION-C [Question 10 is compulsory] =40 Marks		
Q 10	a- What is coal bed methane [CBM]? Explain the generation mechanism of CBM.	5+5	CO4
	b- State the Ultimate and Proximate analysis methods.	5+5	

Q 11	Explain, the geophysical exploration techniques, which used in Mineral exploration.	10+10	
	OR a- Discuss the geological and geochemical methods for mineral exploration. b- Explain the working principle of magnetometer in mineral and ore exploration.	10+10	CO4