

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2018

Programme Name: B.Tech (Mining Engineering)

Semester : III

Course Name : Introduction to Geology

Time : 03 hrs

Course Code : PEGS 2013

Max. Marks: 100

Nos. of page(s) : 1

Instructions: Answer each question in separate page. Draw sketches if necessary.

SECTION-A (5x4=20)

Sl. No.	Briefly Describe following	Marks	CO
Q1.a	Difference between Ore and Gangue	5	CO1
Q1.b	Hypogene ore and how it is related to depth of formation of ore formation?	5	CO2
Q1.c	How Tenor of ore is useful to evaluating ore deposits?	5	CO2
Q1.d	Ore shoots	5	CO3

SECTION-B (10x4=40)

Answer question 2 and any three from rest of the following.

Q2	Describe the process of formation of magmatic ore deposit.	10	CO6
Q3	How the process of contact metasomatism can lead to the formation of ore body?	10	CO3
Q4	Describe the process of formation of hydrothermal ore deposit.	10	CO4
Q5	What is bacteriogenic ore deposit and how does it form?	10	CO3
Q6	What is SEDX deposit and how does it form?	10	CO5

SECTION-C (20x2=40)

Answer question 7 and any one from rest of the following.

Q7	What is placer deposit and how does it form? How the process of sedimentation can lead to the formation of an ore body?	10+10	CO3
Q8	Describe soil profile and how it will be useful in geochemical prospecting? What is supergene enrichment of an ore body?	10+10	CO5
Q9	How the process of evaporation can lead to the formation of an ore body? What are the common mode of occurrences of iron ore bodies?	10+10	CO1 & CO3

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SECTION-A (5x4=20)

Sl. No.	Define following	Marks	CO
Q1.a	Telethermal ore body	5	CO2
Q1.b	Gossan	5	CO2
Q1.c	Proto ore	5	CO5
Q1.d	Tonnage of Ore Deposit	5	CO6

SECTION-B (10x4=40)

Answer question 2 and any three from rest of the following.

Q2	What is supergene enrichment of an ore body and how does it form?	10	CO2
Q3	Describe different process of formation of magmatic ore body.	10	CO6
Q4	Describe different modes of formation of ore shoots.	10	CO5
Q5	Name five common economically important metamorphic minerals and their mode of origin.	10	CO6
Q6	Describe the genesis of hydrothermal ore bodies.	10	CO3

SECTION-C (20x2=40)

Answer question 7 and any one from rest of the following.

Q7	How the process of residual and mechanical concentration leads to the formation of an ore body? What is SEDX deposit and how does it form?	10+10	CO2 & CO5
Q8	Describe the process of cavity filling mineralization. Explain the process of sedimentation can lead to the formation of an ore body?	10+10	CO5
Q9	Write a comprehensive essay on bacteriogenic mineral deposit. Elaborately explain the common factors that govern the ore mineralization process?	10+10	CO3 & CO6