## PARUL UNIVERSITY FACULTY OF APPLIED SCIENCES M.Sc. Winter 2019-20 Examination

Enrollment No:\_\_\_\_\_

M.Sc. Winter 2019-	20 Examination				
Semester: 3 Subject Code: 11211202 Subject Name: Mining Geology and Mineral Economics		Date: 28 /11/2019 Time: 02:00pm to 04:30pm Total Marks: 60			
Instructions:	-				
1. All questions are compulsory.					
2. Figures to the right indicate full marks.					
3. Make suitable assumptions wherever necessary.					
4. Start new question on new page.					
Q.1. A) Essay type/ Brief note (4x2) (Each of 04 marks)			(08)		
(a) Explain Concept of resource in detail.			(00)		
(b) Write a short note on Inorganic origin of a mi	neral & Solid substance				
Q.1. B) Answer the following questions (Any two)	neral & Sond Substance	•			
	well the figures $(2x^2)$ (Eq.	rh of 02 marks)	(04)		
1. Define homogeneous nature of a mineral.	(a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks)				
-	with and political bound	rice			
<ul><li>2. Explain the relationship between Mineral deposits and political boundaries.</li><li>(b) Short note on Mineral endowment.</li></ul>					
(c) Short note on Underground mining.			(04) (04)		
Q.2. A) Answer the following questions.			(04)		
(a) Short note/ Brief note (2x2)/ Fill in the blanks.	(Each of 02 marks)		(04)		
1 is the crustal abundance of Manga			(04)		
2 method is based on dividing the de		her of cubes or			
rectangular prisms.	eposits into a large num	ber of eubes of			
(b) What are the properties of categorization curve	model?		(04)		
Q.2. B) Answer the following questions (Any two)	inouci?		(04)		
(a) Short note/ Multiple choice questions. (Each	of 01 marks)		(03)		
1. What is the crustal abundance of Iron?	of of marks)		(03)		
a) 58,000 gram/tonne b) 48,000gram/tonne	c)38 000 gram/tonne	d)28,000 gram/tonne			
2. Which point will be the flattening point in th		d)20,000 gram/tonne			
a) Y b) B	c) A	d) C			
3 is the crustal abundance of Gold.	<i>,</i>	u) C			
a)0.0050 gram/tonne b) 0.010 gram/tonne	c)0.0035 gram/tonne	d) 0.005 gram/toppo			
(b) Short note on surface mining.	c)0.0055 gram/tonne	d) 0.005 gram/tonne	(03)		
(c) Short note on discovered resource.			(03)		
Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks)			(03) $(08)$		
(a) Explain any four specialities of mineral depos			(00)		
(b) Explain Uncertainty about Quality & Uncerta					
Q.3. B) Answer the following questions (Any two)	inty about Quantity.				
(a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks)					
1. Define Incidence.	(La)	ach of 02 marks)	(04)		
2. Define Economic resource.					
(b) Short note on Reclamation.			(04)		
(c) Short note on Vein Mining.			(04)		
(c) short note on veni tunning.					

Q.4. A) Answer the following qu	iestions.			
(a) Short note/ Brief note $(2x2)$ / Fill in the blanks. (Each of 02 marks)				
1 can be considered as the recoverable component of economic resource.				
2 is the crustal abundance of Aluminiun.				
(b) Short note on Block caving.				
Q.4. B) Answer the following questions (Any two)				
(a) Short note/ Multiple choice questions. (Each of 01 marks)				
1 is the crustal abundance of Zinc.				
a) 94 gram/tone	b) 70 gram/tonne	c) 50 gram/tonne	d) 10 gram/tonne	
2. What is the crustal abundance of Titanium?				
a) 6400 gram/tonne	b) 2200 gram/tonne	c) 3200 gram/tonne	d) 2300 gram/tonne	
3 method is based on vertical sections drawn along the length of the deposits.				
a) Longitudinal	b) Triangular	c) Block method	d) None of the above	
Vertical section method method				
(b) Short note on Shrinkage stoping.				
(c) Short note on Longwall mining.				