Seat No: _____

PARUL UNIVERSITY FACULTY OF APPLIED SCIENCE M.Sc., Winter 2018-19 Examination

Enrollment No: _____

M.Sc., Winter 2018-19 Examination	
Semester: 1Date: 10/12/2018Subject Code: 11211105Time: 10:30A.M. to 1:00Subject Name: Sedimentary Petrology and SedimentologyTotal Marks: 60	P.M.
Instructions:	
1. All questions are compulsory.	
 Figures to the right indicate full marks. Make suitable assumptions wherever necessary. 	
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) Describe the classification of arenaceous sedimentary rocks.	()
(b) Describe the classification of carbonate sedimentary rocks.	
Q.1. B) Answer the following questions (Any two)	
(a) Short note/ Brief note $(2x2)$ / Schematically label the figures $(2x2)$ (Each of 02 marks)	(04)
1. Explain texture of a sediment with respect to grain size and roundness.	
2. Short note on Chemical weathering.	
(b) Short note on grain to grain relationship.	(04)
(c) Short note on Porosity.	(04)
Q.2. A) Answer the following questions.	
(a) Short note/ Brief note $(2x2)$ / Fill in the blanks. (Each of 02 marks)	(04)
1. Particles between 256 mm to 64 mm are known as	
2. Sandstones make up % of all sedimentary rocks.	
(b) Give the definition of quartz wacke and greywacke.	(04)
Q.2. B) Answer the following questions (Any two)	
(a) Short note/ Multiple choice questions. (Each of 01 marks)	(03)
1. What holds a sedimentary rock together?	
a) Cement b) Fossils c) Water in pore spaces d) Silt	
2. Clastic sedimentary rocks are also known as	
a) Terrigenous b) Carbonates c) Evaporites d) Rudaceous	
3 rocks are formed as a result of chemical precipitation.	
a) Evaporites b) Carbonates c) Terrigenous d) Argillite	
(b) What are herringbone structures?	(03)
(c) What are argillaceous rocks? Give suitable examples.	(03)
Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks)	(08)
(a) Write a short note on Conglomerates.	
(b) Write a short note on Lacustrine environments of deposition.	
Q.3. B) Answer the following questions (Any two)	
(a) Short note/ Brief note $(2x2)$ / Schematically label the figures $(2x2)$ (Each of 02 marks)	(04)
1. What is marine environment of deposition? Describe shelf sediment transport & deposition.	
2. Describe cross stratification structures.	
(b) Short note on Limestones.	(04)
(c) Short note on Shales.	(04)
Q.4. A) Answer the following questions.	
(a) Short note/ Brief note $(2x2)$ / Fill in the blanks. (Each of 02 marks)	(04)
1. The upper and lower surfaces of beds are known as	
2 is the degree of sharpness of the corners and edges of the grain.	
(b) Write a short note on authigenic minerals.	(04)
Q.4. B) Answer the following questions (Any two)	
(a) Multiple choice questions. (Each of 01 marks)	(03)
1. Mud supported limestones are called as	
a) Grainstones b) Packstones c) Mudstones d) Wackestones	
2. Conglomerates that contain an assortment of many kinds of clasts are conglomerates.	
a) Metamict b) Polymict c) Oligomict d) Petromict	
3. Particle size $< 1/256$ are	
a) Clay b) Fine sand c) Sand d) Coarse sand	(a = :
(b) Short note on chemical composition of sandstones.	(03)
(c) Short note on physical weathering.	(03)