Seat No:

Enrollment No: __

PARUL UNIVERSITY

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

Date: 03/12/2018 Semester: 1

Subject Code: 11211102 Time: 10:30am to 1:00pm Total Marks: 60

Subject Name: Earth Surface Processes

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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) Short note on Physical weathering.	(**)
(b) Short note on earth's energy balance.	
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. What is exfoliation?	(- /
2. What is respiration?	
(b) Short note on carbon cycle.	(04)
(c) Short note on topography and bathymetry.	(04)
Q.2. A) Answer the following questions.	` ′
(a) Short note/Brief note (2x2). (Each of 02 marks)	(04)
1. Brief note on spheroidal weathering.	` ′
2. Brief note on regolith.	
(b) Short note on rates of weathering.	(04)
Q.2. B) Answer the following questions (Any two)	
(a) Multiple choice questions. (Each of 01 marks)	(03)
1. Which is the densest layer in the atmosphere?	
a) Ionosphere b) Troposphere c) Mesosphere d) Stratosphere	
2. How many % of solar radiation reaches the earth's surface?	
a) 80% b) 20% c) 40% d) 70%	
3. Undefined region lying between troposphere and stratosphere is known as	
a) Mesopause b) Tropopause c) Startopause d) None of the above	
(b) Short note on residual soil.	(03)
(c) Short note on atmosphere.	(03)
Q.3. A) Essay type/Brief note (4x2) (Each of 04 marks)	(08)
(a) Explain soil profile.	
(b) Explain Chemical weathering.	
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. Brief note on photosynthesis.	
2. Brief note on Frost.	
(b) Short note on transported soil.	(04)
(c) Short note on climate and soil formation.	(04)
Q.4. A) Answer the following questions.	
(a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks)	(04)
1 percentage of the earth's water is fresh water.	
2 is called combined effect of weathering and erosion.	(0.4)
(b) Short note on hydrological cycle.	(04)
Q.4. B) Answer the following questions (Any two)	(0.2)
(a) Multiple choice questions. (Each of 01 marks)	(03)
1. Which is the upper most layer of the soil profile?	
(a) A-Horizon (b) B-Horizon (c) C-Horizon (d) None of the above	
2. Residual product of Quartz is	
(a) Clay minerals (b) Limonite (c) Quartz grains (d) Hematite	

3. If the transporting agency is wind then what will be the nature of soil?

(b) Short note on solar radiation.

(c) Short note on modes of sediment transport.

(a) Alluvial deposits (b) Eolian deposits (c) Marine deposits (d) Glacial deposits

(03)

(03)