

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

Semester: 2**Subject Code: 11211155****Subject Name: Marine Geology****Date: 10/04/2019****Time: 10:30 am to 1:00 pm****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) Describe the morphology of sea floor
 (b) Explain different branches of marine geology.
- Q.1. B) Answer the following questions (Any two) (04)**
 (a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)
 1. What is marine geology?
 2. What is passive margin? Give an example.
 (b) Explain oceanic crust (04)
 (c) What is ocean basin? (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 deepest trench on the earth.
 2. Most maps of the oceans are based on measurements made by _____ sounders.
 (b) Write in brief about submarine canyons (04)
- Q.2. B) Answer the following questions (Any two) (03)**
 (a) Short note/ Multiple choice questions. (Each of 01 marks) (03)
 1. _____ are isolated elevations rising above 1000 m or more than the sea floor.
 a) Seamounts b) guyots c) canyons d) trenches
 2. _____ are very flat surfaces found in many deep ocean basins.
 a) Plains b) abyssal hills c) guyots d) canyons
 3. Peru – Chile trench is located at _____ boundary between Pacific and South American plate.
 a) Divergent b) volcanic arc c) convergent d) transform
 (b) Enlist the major oceans of earth. (03)
 (c) What is continental margin? (03)
- Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**
 (a) Describe sea floor spreading
 (b) Explain Hot spot volcanoes
- Q.3. B) Answer the following questions (Any two) (04)**
 (a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)
 1. What is island arc?
 2. What are trenches? Give an example
 (b) Write in brief about mid ocean ridges (04)
 (c) Short note on abyssal hills (04)
- Q.4. A) Answer the following questions. (04)**
 (a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)
 1. _____ currents transport heat by the motion of mantle.
 2. When lithospheric plates slide past each other as the sea floor spreads, they create _____ faults.
 (b) Short note on origin of oceans. (04)
- Q.4. B) Answer the following questions (Any two) (03)**
 (a) Short note/ Multiple choice questions. (Each of 01 marks) (03)
 1. The oceans and seas cover _____ of the earth's surface.
 a) 70 % b) 70.8 % c) 71 % d) 72 %
 2. Pacific ocean is divided into _____ and _____.
 a) East-North b) North-South c) West- South d) East-West
 3. _____ ocean exists between South America and Africa.
 a) Pacific b) Atlantic c) Mediterranean d) Indian

(b) Discuss Circum – Pacific belt

(03)

(c) Short note on different landforms of ocean floor

(03)