

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

Semester: 2**Subject Code: 11211153****Subject Name: Paleontology****Date: 05/04/2019****Time : 10:30 am to 01:00 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 (4x2) (Each of 04 marks) (08)**
 (a) Explain Index fossils in detail.
 (b) Describe Macroevolution in detail
- Q.1. B) Answer the following questions (Any two) (04)**
 (a) Brief note (Each of 02 marks) (04)
 1. Correlation with fossils.
 2. The earth's climate.
 (b) Short note on Mass extinction. (04)
 (c) Short note on winds and ocean currents. (04)
- Q.2. A) Answer the following questions. (04)**
 (a) Fill in the blanks. (Each of 02 marks) (04)
 1. The most favorable environment for the preservation of fossils is _____.
 2. The fauna which comprises exclusively of active swimmers is described as _____.
 (b) Short note on uses of fossils. (04)
- Q.2. B) Answer the following questions (Any two) (03)**
 (a) Give one word answers. (Each of 01 marks) (03)
 1. Which mollusc are entirely marine?
 2. The foraminifers belongs to which class?
 3. In which time period the first vertebrate appeared?
 (b) Short note on types of climate. (03)
 (c) Short note on botanical evidence of the past climate. (03)
- Q.3. A) Brief note (4x2) (Each of 04 marks) (08)**
 (a) Explain Lamarck's theory of inheritance of acquired characters.
 (b) Explain theory of catastrophism.
- Q.3. B) Answer the following questions (Any two) (04)**
 (a) Short note (Each of 02 marks) (04)
 1. Define Taphonomy.
 2. Define Ichnology.
 (b) Short note on sedimentary evidence of the past climate. (04)
 (c) Short note on stratigraphic ranges and zones. (04)
- Q.4. A) Answer the following questions. (04)**
 (a) Fill in the blanks. (Each of 02 marks) (04)
 1. _____ is a type of fossilization where original form & structure are preserved.
 2. Fossil fecal pellets of ancient animals are described as _____.
 (b) Short note on theory of uniformitarianism. (04)
- Q.4. B) Answer the following questions (Any two) (03)**
 (a) Give one word answers (Each of 01 marks) (03)
 1. The earliest forms of Graptolites were found from the rocks belonging to which age?
 2. What is 'Conchology'?
 3. Define 'Living Fossil'.
 (b) What are structural changes associated with environmental shifts? (03)
 (c) Short note on biostratigraphic units. (03)