

**B.Sc. Semester-III Examination, 2022-23****GEOLOGY [Honours]**

Course ID : 32013      Course Code : SH/GEL/303/C-7(T)

Course Title : Palaeontology

Time : 1 Hour 15 Minutes

Full Marks : 25

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **five** of the following questions:  $1 \times 5 = 5$ 
  - a) What is the significance of operculum in gastropod?
  - b) What do you mean by opisthogyrate bivalvia?
  - c) What is the geological age range for Osteichthyes?
  - d) What is siphuncle?
  - e) Define index fossil.
  - f) What do you mean by planispiral coiling?
  - g) Give two examples of angiosperm.
  - h) What is lopophore?

2. Answer any **two** of the following questions:  $5 \times 2 = 10$ 
  - a) Write a short note on suture pattern in ammonites.
  - b) Write a short note on P-T extinction.
  - c) Discuss about the Raupian parameters to describe the coiling in gastropoda.
  - d) Write a short note on Fossil Lagerstätten.
3. Answer any **one** of the following questions:  $10 \times 1 = 10$ 
  - a) With a suitable neat sketch describe the external morphology of bivalvia. Compare brachiopoda and bivalvia on the basis of external morphological characteristics.  $5 + 5 = 10$
  - b) With the help of suitable sketches briefly describe the different processes associated with diagenesis during fossilization.  $10$