

Ex/SC/GEOL/UG/DSE/TH/02/B/2024

**B. Sc. GEOLOGICAL SCIENCE EXAMINATION, 2024**

**(3rd Year, 1st Semester)**

**EVOLUTION OF LIFE THROUGH TIME**

**PAPER : DSE 02/B**

*Time : Two Hours*

*Full Marks : 40*

*( Use a separate Answer script for each Part )*

**PART—I (20 Marks)**

**Answer any two questions from the following : 10×2=20**

1. Explain with diagrams the morphology of Ammonoids and discuss the iterative evolution with example. 5+5
2. Discuss the timing, causes and impact of the mass extinction events which led to the disappearance of major faunal groups in the Earth's history. 2+4+4
3. Discuss in details the Johnson's model of fossil assemblages. How will you distinguish between *in situ* and transported fossils? What is "time-averaging" in taphonomy? 5+3+2

**( 2 )**

**PART—II (20 Marks)**

- 1. Answer any two questions from the following :**

**8×2=16**

- (a) Discuss the origin of jaws with suitable diagrams.
- (b) Describe the progressive trends of horse evolution during Cenozoic Era.
- (c) Write the possible reasons of extinction of dinosaur.

- 2. Write short notes on (*any one*) :**

**4×1=4**

- (a) Monera
- (b) Amniotic egg

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