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3 (Sem-4/CBCS) GLG SE

2024

GEOLOGY

(Skill Enhancement Course)

Paper : GLG-SE-4034

**(Stratigraphy and Palaeontological
Field Work)**

Full Marks : 50

Time : Two hours

**The figures in the margin indicate
full marks for the questions.**

1. Choose the correct answer from the following questions : 1×4=4

(a) Palaeozoic is the era of

(i) reptiles

(ii) corals

(iii) mammals

(iv) trilobites

Contd.

(b) Which of the following sedimentary structures is the best indicator of determination of flow direction ?

- (i) mud cracks
- (ii) ripple marks
- (iii) graded bedding
- (iv) rain prints

(c) The most favourable environment for the preservation of *calcareous* fossils are

- (i) shallow marine
- (ii) lacustrine
- (iii) fluvial
- (iv) swamp

(d) Geological ranges of *foraminifera* is

- (i) Cambrian to Recent
- (ii) Permian to Recent
- (iii) Triassic to Recent
- (iv) None of the above

2. Answer briefly the following questions :
(any three) $2 \times 3 = 6$

- (a) What is formation? Give an example.
- (b) What is a range zone?
- (c) What are the conditions of fossilization?
- (d) What is an index fossils?

3. Write short notes on the following :
(any two) $5 \times 2 = 10$

- (a) Principles of stratigraphic correlation
- (b) Preparation of lithology
- (c) Modes of preservation of fossils
- (d) Standard geological time scale

4. Answer the following questions : **(any three)**
 $10 \times 3 = 30$

- (a) Define fossil. Describe the importance of fossils in the study of evolutionary history, paleogeography and paleoenvironment.
- (b) What is biostratigraphy? Discuss different kinds of 'biozones' with suitable sketches.

- (c) What is lithostratigraphy? Discuss different units of lithostratigraphy with suitable Indian example.
- (d) Discuss about chronostratigraphic divisions and units. What are the applications of chronostratigraphy?
- (e) Discuss about sedimentological and palaeontological sampling techniques in the field.