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3 (Sem-3/CBCS) GLG SE

2023

GEOLOGY

(Skill Enhancement Course)

Paper : GLG-SE-3014

(Basic Field Training)

Full Marks : 50

Time : Two hours

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

1. Choose the correct option : 1×4=4

(a) Ophitic texture is a characteristic feature found in –

(i) Dunite

(ii) Diorite

(iii) Dolomite

(iv) Lamproite

Contd.

(b) Which of the following is the metamorphic equivalent of limestone?

(i) Quartzite

(ii) Marble

(iii) Schist

(iv) Slate

(c) Cross-bedding is a -

(i) Scalar

(ii) Vector

(iii) Both scalar and vector

(iv) None of the above

(d) A type of unconformity characterized by the occurrence of sedimentary rock on igneous/metamorphic rock is -

(i) Angular unconformity

(ii) Non-conformity

(iii) Dis-conformity

(iv) Paraconformity

2. Describe briefly the following: $2 \times 3 = 6$

(a) Pinch and Swell structure

(b) Ball and Pillow structure

(c) Dextral and Sinistral shear zone

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

(a) Cross stratification and its classification

(b) Use of Brunton/Clinometer compass in Geological field study

(c) Textures of Igneous rock

(d) Petrography of Quartzite

4. Answer the following questions: $10 \times 3 = 30$

(a) Write a detailed note on primary sedimentary structure with neat sketch.

Or

Define Lithology. Explain how to construct a lithology in a sedimentary section. $2 + 8 = 10$

- (b) Discuss different types of metamorphic texture.

Or

Explain method of identification of different structural elements in the field.

- (c) Write a detailed note on how to study contour pattern to indicate different landforms.

Or

Write a note on classification of igneous rocks.
