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3 (Sem-3/CBCS) GLG SE

2022

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. Answer the following questions : **(any four)**
1×4=4

(a) Define contour.

(b) What is strike ?

(c) Define dip direction.

(d) Rhyolite is a plutonic rock.

(State True or False)

Contd.

- (e) Porphyritic texture is due to slow rate of cooling. (State True or False)
 - (f) What do you mean by lamination ?
 - (g) Define foliation.
 - (h) Write the chemical formula of calcite.
2. Write briefly on the following : **(any three)**
2×3=6
- (a) Use of Brunton compass
 - (b) Granite
 - (c) Poikilitic texture
 - (d) Graded bedding
 - (e) Synclinalorium
 - (f) Latitude and longitude
 - (g) Shale
 - (h) Fault
3. Write short notes on : **(any two)** 5×2=10
- (a) Ripple marks and its types with suitable diagrams
 - (b) Pitch and swell structure with figure

- (c) Method of numbering toposheets
- (d) Porphyritic and granoblastic texture with figure
- (e) Discuss the texture of sedimentary rock
- (f) Write notes on stratification and cross-stratification

4. Answer the following : **(any three)**
10×3=30

- (a) Give a detailed account on classification of sand stone.
- (b) Discuss the structure of sedimentary rocks.
- (c) Write a note on unconformities with suitable diagram.
- (d) What do you mean by fold ? Give a detailed classification of fold.
- (e) Write short notes on the following :
2½×4=10
 - (i) Gneissosity
 - (ii) Schistosity

- (iii) Lineation
 - (iv) Foliation
 - (f) Give a detailed account on metamorphic textures.
 - (g) Discuss the different types of igneous texture.
 - (h) Give a detailed account on contour pattern with contour maps of
 - (i) a valley
 - (ii) plateau
 - (iii) dome
 - (iv) cliff.
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