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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) Synclorium

(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) Lamination

(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.