U.G. 1st Semester Examination - 2022

GEOGRAPHY

[HONOURS]

Course Code : GEO-H-CC-T-02

(Cartographic Techniques and Geological Map Study)

[NEW SYLLABUS under CBCS]

Full Marks : 40 Time : $2\frac{1}{2}$ Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any **five** from the following: 2×5=10

a) What is *constant of the cone*?

b) Write the advantages of *diagonal scale*.

c) What is meant by *thematic map*?

d) Distinguish between *dip* and *strike*.

e) What is *generating globe*?

f) Bringout the significance of UTM.

g) What is *vernier constant*?

h) Differentiate *hade* from *heave*.

2. Answer any **two** from the following: 5×2=10

a) Highlight the identifying characteristics of *magnetite* and *hematite*.

b) Mention the uses of *granite* and *basalt*.

c) State the concepts of *bed* and *bedding plane*.

d) Differentiate the *geoid* from the *spheroid*.

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

a) Discuss the components of map and analyse their significances with respect to map making and communication process.

b) Describe the nature of Cartography and enumerate its scope.

c) Enunciate the properties and uses of Polar and Rectangular coordinate systems.

d) Give a detailed account of reference scheme of old and open series topographical maps (SOI) with necessary illustration.

U.G. 1st Semester Examination - 2022

GEOGRAPHY

[HONOURS]

Course Code : GEO-H-CC-T-01

(Geotectonics and Geomorphology)

[NEW SYLLABUS under CBCS]

Full Marks : 60 Time : $2\frac{1}{2}$ Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

UNIT–1

(Geotectonics)

[Marks : 20]

1. Answer any **three** from the following: 2×3=6

   a) What is lithosphere?

   b) What is Moho discontinuity?

   c) What is orogenic movement?

   d) What is strike?

   e) What is fault scarp?

2. Answer any **one** from the following: 4×1=4

a) Describe the composition of earth's crust.

b) Mention the characteristics of P and S seismic waves.

3. Answer any **one** from the following: 10×1=10

a) Explain the distribution of major volcanic zones of the world in the light of plate tectonics theory.

b) Classify and describe the major types of folds with suitable diagrams.

UNIT–2

(Geomorphology)

[Marks : 40]

4. Answer any **seven** from the following: 2×7=14

a) What is oxidation?

b) What is peneplain?

c) What is base level?

d) What is inselberg?

e) What is compressional force?

f) What is arcuate delta?

g) What is doline?

h) What is loess?

i) What is consequent river?

j) What is wave cut platform?

k) What is graded profile?

5. Answer any **four** from the following: 4×4=16

a) Distinguish between mass wasting and weathering.

b) State about the dynamic nature of Geomorphology.

c) Differentiate cuesta from hogback.

d) Explain the exfoliation weathering with suitable diagram.

e) Mention the characteristics of barchan.

f) Distinguish between abrasion and attrition.

6. Answer any **one** from the following: 10×1=10

a) Describe the major landforms produced by glacial erosion with suitable diagrams.

b) Illustrate with diagrams the landscape evolution model after Penck.
