## U.G. 1st Semester Examination - 2021
## 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-I

### (Geotectonics)

### [Marks : 20]

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

    a)    What is asthenosphere?

    b)    What is nappe?

    c)    What is homoseismal line?

    d)    What is anticlinorium?

    e)    What is volcanic fissure?

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

    a)    Differentiate SIAL from SIMA.

*[Turn Over]*

b)    Distinguish between normal fault and reverse fault.

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

    a)    Explain the formation of folded mountains in the light of plate tectonic theory.

    b)    Discuss the Pratt's model on isostasy with suitable diagram.

### UNIT-II

### (Geomorphology)

### [Marks : 40]

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

    a)    What is carbonation?

    b)    What is solifluction?

    c)    What is pediplain?

    d)    What is antidip stream?

    e)    What is blind valley?

    f)    What is abrasion?

    g)    What is fault scarp?

    h)    What is shoreline?

    i)    What is bajada?

j) What is nunatak?

k) What is piedmont glacier?

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

a) Explain granular disintegration of rocks.

b) Distinguish between earthflow and mudflow.

c) Explain the formation of inversion of relief.

d) Specify the essential conditions for the development of karst topography.

e) State the formation of wave-cut platform.

f) Outline the different types of moraines.

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

a) Describe the major erosional landforms produced by aeolian processes with suitable diagrams.

b) Illustrate the landscape evolution model after Davis.

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