First Semester Examination-2017

M.Sc. GEOGRAPHY

Paper Code: GEO-101

Full Marks : 40 **Time: 2 Hours**

Write the answer for each unit in separate sheet

The figures in the right-hand margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

Unit-I

Geotctonics

Marks: 20

GROUP-A

1. Answer any one question: 1×8=8

a. How does the magnetic property inside the matter generate? Also discuss the dynamo theory for the genesis of the Earth's magnetic field.

b. What is Neo-tectonic? Describe the evidences of Neo-tectonic in the world.

GROUP-B

2. Answer any two question: 2×4=8

a. Explain with illustration the causes of plate dynamics.

b. Describe the essentiality of radioactive decay in $C^{14} \rightarrow N^{14}$ dating.

c. What is virtual geomagnetic pole (VGP)? How does it help to construct the polar wandering curve?

d. Briefly explain absolute dating techniques.

GROUP-C

3. Answer any two question: 2×2=4

a. Mention two consequences of supernova explosion.

b. Define ophiolite and mélange.

c. What do you mean by magnetic inclination and declination?

d. What are the types of landform seen in transform boundary fault?

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UNIT-II

Geomorphology

Marks: 20

GROUP-A

1. Answer any one question: 1×8=8

a. Elucidate with illustration the slope evolution model of Penck.

b. Explain the scope of applying knowledge of geomorphology in hazard management with special reference to flood in Paschim Medinipur.

GROUP-B

2. Answer any two question: 2×4=8

a. Examine the geomorphic significance of alluvial fan.

b. How does uniformitarianism differ from catastrophism?

c. Elucidate essential properties of graded profile.

d. Discuss the active processes on the different elements of slope.

GROUP-C

3. Answer any two question: 2×2=4

a. Define geomorphic threshold.

b. Define safety factor.

c. What is active base level of erosion?

d. What is dynamic equilibrium?

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