ACC NO. QT 12

MCC/17/M.Sc./Sem.-1/GEO/1

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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

Geotetonics

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:

 $2\times4=8$

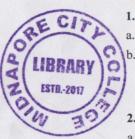
- a. Explain with illustration the causes of plate dynamics.
- b. Describe the essentiality of radioactive decay in $C^{14} \rightarrow N^{14}$ dating.
- c. What is virtual geomagnetic pole (VGP)? How does it help to construct the polar wandering curve?
- d. Briefly explain absolute dating techniques.

GROUP-C

3. Answer any two question:

 $2\times2=4$

- 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?



UNIT-II

Geomorphology

Marks: 20

GROUP-A

1. Answer any one question:

1×8=8

. Elucidate with illustration the slope evolution model of Penck.

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

GROUP-B

. 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?
