

**MA/M.Sc. 1st Semester Examination, 2019**

**GEOGRAPHY**

**PAPER —GEO-(UNIT-101.1 & 2)**

*Full Marks : 40*

*Time : 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*

*Illustrate the answers wherever necessary*

**Write the answers to Questions of each Units  
in separate books**

**UNIT — 101.1**

**( Geotectonics)**

**[ Marks : 20 ]**

**GROUP — A**

**1. Answer any *one* question : 8 × 1**

**(a) Describe the process of the formation planetary disc around the Sun, and explain the formation at the earth.**

- (b) How does the Apparent Polar Wandering path (APW) help in conceptualizing the continental drift theory ?

GROUP – B

2. Answer any *two* questions : 4 × 2

- (a) What is the basic principle of radiometric age determination technique ?

- (b) How do the thermo remoment (TRM) and post-depersional remoment magnetism (pDRM) help us to study the paleo magnetism of the Earth's crust ?

- (c) Briefly discuss the characteristics of neotectonic movements.

- (d) What are the differences between orogenesis and epeirogenesis.

GROUP – C

3. Answer any *two* questions : 2 × 2

- (a) What are the fundamental subatomic particles ?

- (b) Which process powers the Sun ?
- (c) What quantum property at the subatomic particles is responsible for the genesis of magnetic behaviour inside substances ?
- (d) What is a 'back arc basin' ?

UNIT – 101.2

( *Geomorphology* )

[ Marks : 20 ]

GROUP – A

4. Answer any *one* question : 8 × 1.

- (a) Elucidate the theories on flood-plain development.
- (b) Explain different concepts of equilibrium and their applications in geomorphology.

GROUP – B

5. Answer any *two* questions : 4 × 2

- (a) Briefly explain the importance of functional approach in process study.

- (b) How does the slope replacement work ?
- (c) How does geomorphic stress help in weathering ?
- (d) What are the characteristics of an asymmetric channel ?

GROUP – C

6. Answer any *two* questions : 2 × 2
- (a) What is active base level ?
  - (b) What is angle of repose ?
  - (c) Define graded state.
  - (d) Define the term 'complex response'.
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