

Roll No.

Total Pages : 2

CMDQ/D-23

5210

PLATE TECTONICS

Paper–GT–502

Time allowed : 3 Hours]

[Maximum Marks : 100

Note : Attempt **five** questions in all, selecting **one** question from each unit. Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Questions

1. Explain the following briefly:

- (i) Mantle
- (ii) Conrad discontinuity
- (iii) Gravity anomaly
- (iv) Back arc basins
- (v) Tectonics.

UNIT-I

2. Discuss the characteristics of oceanic lithosphere.

3. Write short notes on any two of the following:

- (a) Continental plates.
- (b) Evidence of plate motion.
- (c) Plate driving force.

UNIT-II

4. Discuss the structure and evolution of conservative plate boundaries.

5. Write short notes on any two of the following:

- (a) Mid-oceanic ridges.
- (b) Chemical remnant magnetism.
- (c) Morphology of slow spreading ridges.

UNIT-III

6. Discuss the origin of oceanic trenches.

7. Write short notes on any two of the following:

- (a) Fore arc basin.
- (b) Arc.
- (c) Sediment accumulation in trenches.

UNIT-IV

8. Discuss the Indian plate margins.

9. Write short notes on any two of the following:

- (a) Wilson cycle.
- (b) Himalayan Frontal Thrust.
- (c) Orogenesis.