

Roll No.

Total Pages : 2

CMDQ/D-23

5216

**MICROPALAEONTOLOGY &
PALYNOLOGY**

Paper–GT–703

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 Question

1. Write short notes on the following:

- (a) Chitinozoans
- (b) Radiolarians
- (c) Acritarchs
- (d) Spore coloration index.

UNIT-I

2. Discuss the methodology of processing of organic walled microfossils.

3. Write notes on the following:

- (a) Morphology and ecology of Diatoms
- (b) Surface and subsurface sampling for microfossils.

UNIT-II

4. Write detailed morphology and ecology of Ostracods.

5. Write brief on the followings:

- (a) Radiolarians
- (b) Conodonts.

UNIT-III

6. Discuss the morphology of fossil spores and pollen grains.

7. Write brief notes on the following:

- (a) Use of microfossils in palaeoenvironmental interpretation.
- (b) Morphology and ecology of dinoflagellates.

UNIT-IV

8. Discuss the applications of microfossils and palynofossils in fossil fuel exploration.

9. Write brief on the followings:

- (a) Palaeobathymetry
- (b) Stable isotope analysis of microfossils.