

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.