

M. Sc. (Previous) Examination, 2001

GEOLOGY

Third Paper

(Paleontology)

Time—Three Hours
Maximum Marks—100

Attempt **FIVE** questions in all
All questions carry equal marks.

1. Distinguish Palaeoecology from Ecology. How fossils are useful in Palaeoecological reconstruction? **2+7**
2. Highlight extinctions of organisms in Geological time. **10**
3. How foraminiferal tests are useful in Palaeoecological reconstruction? Give their Geological history. **5+5**
4. Give Geological history of Tetracoralla and Hexacoralla and their relationship. **4+4+2**
5. Write short notes of the following, give neat sketches
 - (a) Brachial skeletons in brachiopods and their significance in classification. **2.5+2.5**
 - (b) Evolution of Hinge and types of dentitions in lamellibranchs (bivalves). **2.5+2.5**
6. Discuss the following:
 - (a) Ornamentation in Cephalopods. **5**
 - (b) Siphuncle in Cephalopods. **5**
7. Illustrate evolutionary trends of Trilobites. **10**
8. Trace evolution of Horses giving factors, evidences and anatomical changes. **3+3+4**
9. Illustrate 10 Gondwana flora giving their stratigraphical distribution in India. **5+5**
10. Illustrate twisting of nervous system in Gastropods. How it significant in Palaeontological studies **5+5**