

M.Sc. Sem.-1 Examination

404

Geology

January-2024

Time : 2-30 Hours]

[Max. Marks : 70

- Instructions:** (i) Draw neat diagrams whenever necessary.
(ii) Write proper answer number.

Q-1 Write note on species concept and Evolution of the organic world with major extinction events. (14)

OR

- Q-1 (a) Explain collection, storing and study of microfossils. (07)
(b) Elaborate best sites for fossil hunting and describe dressing of fossils. (07)

Q-2 Discuss evolutionary trends, stratigraphic and ecological significance of trilobita and graptolitoidea. (14)

OR

- Q-2 (a) Discuss evolutionary trends in bivalvia. (07)
(b) Describe stratigraphic and ecological significance of echinoderms. (07)

Q-3 Describe evolutionary trends in Proboscidae and Homonidae. (14)

OR

- Q-3 (a) Describe Mammalian dentition. (07)
(b) Write note on Dinosaurs and their extinction. (07)

Q-4 Explain in brief morphological and taxonomic study of plant fossils. (14)

OR

- Q-4 (a) Discuss migration and dispersion in palaeobotany. (07)
(b) Write short note on: Alethopteris, Megalopteris and Pecopteris. (07)

Q-5 Attempt any seven questions out of twelve. (14)

- (i) Which era is known as age of mammals? Why?
- (ii) Describe use of 'aff' and 'sp' in nomenclature of fossils.
- (iii) Provide use of awl and shovel in geological field work.
- (iv) Give an evolutionary trend in Nautiloidea.
- (v) What is stratigraphic and ecologic significance?
- (vi) What is bivalvia and brachiopoda? Differentiate between them.
- (vii) State the adaptation and special featured developed in Aves showing direct evolution from reptiles.
- (viii) Define Marsupials and Insectivores.
- (ix) State the site and age from which Narmada man fossil discovered.
- (x) Define Thallophyta and Embryophyta.
- (xi) Draw a diagram of *Lepidodendron*.
- (xii) Draw a diagram of Cordaites.

