1.

3 (Sem-3/CBCS) GLG HC 3

send right rabsence of \$202611 species

(iii) maximu YOOLOGO of a fossil

(Honours Core)

Paper: GLG-HC-3036

(c) The faunn (ygolotnosals) ively active

Full Marks: 60

Time: Three hours and

The figures in the margin indicate full marks for the questions.

- Choose the correct option: 1×7=7
- (a) The occurrence of ammonites in a sequence suggests —
- (i) Cenozoic age and freshwater environment
- (ii) Cenozoic age and marine
 - (iii) Mesozoic age and freshwater environment
 - (iv) Mesozoic age and marine environment

Acme zone indicates the and redmun lotoT (i) range of a fossil species absence of a fossil species maximum abundance of a fossil (Honours Core) (iv) migration of a fossil species The faunna which are exclusively active (c) swimmers is known as Planktond serdT : smiT The figures in the margnother (ii) full marks for the questions. (iii) Benthic 1. Choose the correct option: (a) The occurrence of spigled (vi) sequence suggests --(d) The shell of Brachiopod consists of two equal but inequilateral valves fill Cenozoic age and marine two unequal but equilateral valves (iii) two equal and equilateral valves environment (iv) None of the above

- (e) Horses are very good example of 'Straight Line Evolution' i.e., they have evolved with little deviation with time. This phenomenon is known as — Orthogenesis

 - Paragenesis
 - (iii) Tachygenesis
 - Answer briefly the yengotno. (vi)
- In India the Dinosaurs attained their highest development during the deposition of —
- (b) Define ichno fossil. Give one example.
- Jameta beds is stand ()
- Umaria marine beds
 - preservation of tossil Give xample.

 Bap beds

- Gondwana flora?
- evolved with little deviation with time siratpomagnab (i)
 This phenomenon is known as
 - (ii) Ptilophyllum
 - (iii) Otozamites
 - (iv) Nilssonia
- 2. Answer briefly the following: 2×4=8
 - (a) State the differences between Articulate and Inarticulate Brachiopod.

deposition of -

- (b) Define ichno fossil. Give one example.
- (c) What is sinistral coiling? Give example.
- (d) Explain 'Pelrification' mode of preservation of fossil. Give example.

3. Write short notes on : (any three)

nearest living relative (NLR) method of

5×3=15

- (a) Dentition pattern of Bivalves
 - (b) Evolution of suture line in Cephalopod
 - (c) Species concept
 - (d) Biostratigraphic correlation
 - (e) Importance of fossil record
- 4. Answer the following questions:

08=8×01 with proper phylogeny. Explain how the describe the describe the

morphological feature of gastropods.

Write a note on their biostratigraphic

significance. 8+2=10

(c) Discuss evolutionary history of

Define organic evolution. Explain how organic evolution can be interpreted from fossil records. 2+8=10

(b) Define Paleobotany. Write a note on nearest living relative (NLR) method of Paleocimate study. Describe plant fossils of India with special emphasis to Gondwana flora. 1+2+7=10

> (d) Biostratigraphic correlation Importance of fossil record

Describe the evolutionary history of Horse 08=8×01 with proper phylogeny. Explain how intercontinental migration occurred throughout evolution. (6+2)+2=10 Write a note on their biostratigraphic 8+2=10significance.

Discuss evolutionary history of Dinosaurs. Give two possible reason of Define leganic evolution. Explain how extinction of Dinosaurs. 2+8=10

from fossil records.

3 (Sem - 3 (CBCS) OLG HC 3 (G

Define biogeographic province. Write a note on different types of biogeographic provinces. State the difference between cosmopolitan and disjunctive distribution. (2+6)+2=10

5×3=15