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Roll No.

I Semester Examination, January 2022

M.Sc.

GEOLOGY

Paper IV

(Palaeontology)

Time : 3 Hours]

Max. Marks : 80

Note : All questions are compulsory. Question Paper comprises of 3 Sections. Section A is objective type/multiple choice questions with no internal choice. Section B is short answer type with internal choice. Section C is long answer type with internal choice.

> **SECTIONA** $1 \times 10 = 10$

(Objective Type/Multiple Choice Questions)

Choose the correct answer :

- **1.** Source of fossil is :
 - (a) Sedimentary rock
 - (b) Igneous rock
 - (c) Platonic rock
 - (d) Volcanic rock

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2. Favourable environment for fossil preservation is:

(a) Marine	(b) Lacustrine

- (c) Fluvial (d) Terrestrial
- **3.** Which of the following Gastropoda's bare is flat?
 - (a) Turbo (b) Murex
 - (c) Conus (d) Trocnus
- **4.** Which of the following is an example of Index fossile?

(a) Pecten	(b) Sponge
(c) Fish	(d) Trilobites

5. The skeleton of a simple colony of Graptolites is known as :

- (c) Test (d) Rhabdosome
- **6.** Most ancient ancesters of Man seen to have appered during :
 - (a) Eocine (b) Oligocene
 - (c) Pliocene (d) Pleistocene
- 7. The Mouth of echinoids are surrounded by a membrane called :
 - (a) Madreporite (b) Peristome
 - (d) None of these

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- (c) Periproct

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8.	"Pallial Sinas" seen in :					
	(a) Lamellibranchia	(b) Vertebrate fossi	1			
	(c) Foraminifers	(d) Plant fossil				
9.	Which of the following shows sinistral type of coiling ?					
	(a) Physa	(b) Conus				
	(c) Murex	(d) Bellorophon				
10.	Glossopteris belongs to :					
	(a) Upper Gondwana					
	(b) Triassic					
	(c) Lower Gondwana					
	(d) Cretaceous					
	SEC	ΓΙΟΝ Β	5×4=20			
(Short Answer Type Questions)						
Note	: Answer the followin	g questions in 250	words.			
Unit-I						
1.	Mass extinction and	its causes.				
	(Or				
	Geological distributi	on of Brachiopods.				

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P.T.O.

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Unit-II

2. Morphology of Gastropods.

Or

Suture lines in cephalopods

Unit-III

3. Classification and geological history of Echinoids.

Or

Morphology and evolutionary trends of Graptolites.

Unit-IV

4. Describe Siwatile Fauna.

Or

Evolution of plant through geological time.

Unit-V

5. Explain techniques in micropalaeontology

Or

Use of microfossils in palaeoenvironmental studies.

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SECTION C $10 \times 5 = 50$

(Long Answer Type Questions)

Note : Answer the following questions in **500** words.

Unit-I

 Define Fossil. Describe the application of study fossils in the field of Palaeobiogeography and Palaeoclimatology.

Or

Write an essay on fossils and their mode of preservation.

Unit-II

2. Describe the morphology classification and evolutionary trends of Trilopites.

Or

Describe morphology, classification evolutionary trends and distribution of cephalopods.

Unit-III

3. Write an essay on evolutionary history of man.

Or

Describe the morphology classification and evolution of graptolites.

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Unit-IV

4. Write an essay on "Gondwana Flora".

Or

Describe the evolution of plant fossils and their relation with Geological Time Scale.

Unit-V

5. What are Microfossils ? How are they used in Hydrocarbon exploration ?

Or

Write an essay on "Micropalaentology.

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