2904N163

Candidate's	Seat No	•
-------------	---------	---

M.Sc Integ in App Geo Sem-4 Examination

AGL 209

Palaeontology

Time: 2-00 Hours] April 2022

[Max. Marks: 50

Instructions: All questions in **Section –I** carry equal marks. Attempt any **Three** questions in **Section-I.** Questions I in **Section-II** is **COMPULSORY**.

	Section-i	
Q-I	A. Explain the concepts of organic evolution. Also describe in detail	7
	the major evidences pointing towards evolution	
	B Explain the concepts of taxonomy, taxonomic hierarchy and	7
	relation between taxonomy and fossil identification	
	A Define mass extinction and describe in detail all the major	
Q-II	punctuated events through the geological period	7
	B Define species concept, name the four (4) species concepts and	7
	describe in detail morphological species concept	'
Q-III	A Describe the major morphological aspects and stratigraphic significance of pelecypoda.	7
	B Providing reasons explain why fossils tend to be more preserved	7
	in sedimentary rocks and on the basis of their distribution,	
	occurrence and characteristics describe the six (6) types of fossils	
	A What are ammonites and based on the shell morphology describe	
Q-IV	the eight (8) distinct types	7
	B Explain the significance of taxonomic studies and describe in	7
	detail typological species concept	
	A Write a note on the major morphological characteristics,	
Q-V	geological history and stratigraphic significance of Brachiopods	7
	B Explain in detail the 10 biogeographic zones India	
	p a segonde de diogeographic zones mula	7
Q-VI	A Write a note on the significance of Mesozoic period	7
Q-VI	B Explain animal classification based on the type of teeth and neck,	7
	type of eggs, structure, reproduction, food consumption, footprints	/
	and hip pattern	
	A VALUE	
,Q-VII	A Write a note on vertebrate evolution and its diversity with time	7
	B Write a note on taphonomy and describe petrification process in detail	7
	A Write a note on hearing at the	
Q-VIII	A Write a note on hominin evolution and diversity	7
	B Explain what is migration and dispersal in detail. Also explain its significance	7

Section II

	QIX MCQs			
1)	Erosion of hard tissues due to sandblasting effects of suspended sediment particles is called			
	a) dissolution			
	b) fragmentation			
	c) abrasion			
	d) disarticulation			
2)	is the principal mineral component of the skeletons of some sponges and micro- organisms such as diatoms and radiolarians.			
a)	calcite			
b)	opal			
c)				
d)	garnet			
3)	Skeletal remains that are composed of stable minerals like can be preserved without significant change in chemical makeup or internal structure			
	a) Calcium nitride			
	b) Calcium sulphate			
	c) Calcium chloride			
	d) Calcium phosphate			
4)	The oldest known aragonite in the rock record is of			
	a) Late triassic age			
	b) Late mesozoic age			
	c) Late Palaeozoic age			
	d) Late cenozoic age			
5)	are the oldest lineage of mammals			
	a) Marsupials			
	b) Monotremes			
	c) Diatremes			
	d) Eutherians			
6)	Phylogenetic tree shows that all primates are divided into groups			
a)	3			
b)	4			
c) d)	2 5			
7)	Many organisms employ other organisms for long distance transport, which is known as			
	a) Pougation			
	a) Parasitismb) Migration			
	c) Phoresy			
	d) Filtering			
8)	is a body of rock located between the last appearance of a taxon and the first appearance of another taxon			
	a) Partial range biozone			
	b) Concurrent range biozone			
	c) Interval biozone			
	d) Taxon range biozone			