PARUL UNIVERSITY PARUL INSTITUTE OF APPLIED SCIENCES MID SEMESTER INTERNAL EXAMINATION, MARCH 2020

B.Sc. Geology, Semester IV

Paper Name: Paleontology Date: 05/03/2020 Maximum Marka: 40

Paper Code: 11111251 Time: 12.00-1.30 pm

Ma	ximı	um Ma	rks: 40				
1.	All c	-	ns are compulsory and op the right of question ind	U	n first & second question only. f respective question.		
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Q . 1	1	Attempt any one question of the following.				(08)	
			scribe in detail the different scuss the shell morphology	•	ition with appropriate examples. ith appropriate diagram.		
Q. 2		Attempt any three questions of the following.				(12)	
		 (i) What does the term "prosiphonate" and "retrosiphonate" mean in Ammonites? (ii) Classify brachiopods based on the characteristic of hinge line and length of shell. (iii) List down the main factors that favour fossilization (iv) Define convolute and globular coiling in gastropods with an appropriate example. (v) Classify the subclass Pteriomorpha and Palaeoheterodonta to order levels. 					
Q. 3		Do as directed. Attempt all five questions.				(05)	
		 (i) What do you mean by dextral coiling in gastropods? (ii) Name the orders within the class Articulata of Brachiopods. (iii) Define Heterodont dentition in bivalves. (iv) Define trace fossils. (v) When did the Goniatitic suture firstly appear in Ammonoidea? 					
Q.4 Write correct option in your answer sheet for all 15 multiple choice que						(15)	
х• MC		is an excavation produced by an organism in a hardground.					
WIC	Υ	$\overline{(A)}$		(B)			
		(C)	Burrow Trail	(D)	Track Boring		
	~ •						
MCQ 2			ch among the following is I				
		(A) (C)	Nautilus Ammonite	(B) (D)	Trochus Belemnites		
		(C)					
MC	Q 3		-		circular opening inwardly with detli	dium.	
		(A)	Siphuncle	(B)	Delthyrium		
		(C)	Foramen	(D)	Aperture		
MC	Q 4	The dental system having straight hinge line with numerous small, homodont teeth radiating from the centre of the valve is					
		(A)	Taxodont	(B)	Homodont		
		(C)	Dysodont	(D)	Heterodont		
MC	Q 5	The shell having large and convex last whorl covering nearly all the others and the aperture is termed as					
		(A)	Convolute	(B)	Trochiform		
		(C)	Turrited	(D)	Globular		
MC	Q 6	Mode of preservation in which the crystals that were secreted to form the shell may be changed in form and size without changing in composition is termed as					
			Recrystallization	(B)	Unaltered remains		
		(C)	Permineralisation	(D)	Pyrtitization		

MCQ 7 Match the shapes of the valves (Part- A) with the correct terminology (Part-B) Part-A Part-B

Part-A Plano-convex a. i. Concavo-convex h ii. c. Biconvex iii. d. Resupinate iv. (A) i-a, ii-d, iii-c, iv-b (B) i-b, ii-d, iii-a, iv-c (C) i-b, ii-c, iii-a, iv-d (D) i-c, ii-d, iii-a, iv-b MCQ 8 The simplest straight form of the cephalopod shell closed at the apical end and open at the other end is described as an ____ Orthocone (A) Gyrocone (B) (C) Torticone (D) Crytocone MCQ 9 The time range of the subclass Pulmonata is from _ (A) Mesozoic to Recent **(B)** Carboniferous to Recent (C) Cambrian to Ordovician (D) Cambrian to Recent **MCQ** 10 Class ______ is also known as Pelecypoda (B) (A) Gastropoda Inarticulate Brachiopods (C) Cephalopoda (D) Bivalvia MCQ 11 Ice age mammoths with their undigested last meal remaining in the stomach, found frozen in N. America and Siberia is an example of _____ mode of preservation. (A) Unaltered Pertification (B) (C) Carbonisation Altered (D) The major radiation of ceratitids was during **MCQ 12** _____ period. (A) Jurassic Triassic (B) (C) Permian (D) Cretaceous **MCQ 13** In Brachiopods, the lopophore occur in pair with cilia and are used for ______. (A) Boring **(B)** Burrowing (C) Gathering the food (D) Attachment to substrate MCQ 14 Calcium carbonate forming a rigid inner growth of crystals in organic matrix may be mostly in the form of ______ in the molluscs. (A) Dolomite **(B)** Calcite (C) Aragonite (D) Silica Bivalves with both adductor impression of equal size is termed as _____ **MCQ 15** (A) Monomyarian **(B)** Anisomyarian (C) Isomyarian (D) Dimyarian

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