## 5 SEM TDC GEO M 1

## 2016

( November )

## **GEOLOGY**

(Major)

Course: 501

## ( Palaeontology )

Full Marks: 48.

Pass Marks: 19 (Backlog)/14 (2014 onwards)

Time: 2 hours

The figures in the margin indicate full marks for the questions

- What is palaeontology? Name different branches of palaeontology. Discuss various applications of palaeontology. 1+2+7=10
- 2. Describe with neat sketches the shell morphology and geological distribution of any one of the following: 7+3=10
  - (a) Gastropoda
  - (b) Echinoidea
  - (c) Trilobita

3.	Wı	rite notes on any <i>two</i> of the following: $5 \times 2 = 10$
	(a)	Role of fossils in the study of palaeoclimatology
	(b)	Importance of foraminifera in stratigraphy
	(c)	Application of fossils in correlation and in petroleum exploration
4.	Wri	ite briefly on any <i>two</i> of the following: $3\frac{1}{2} \times 2 = 7$
	(a)	
	(b)	
	(c)	Organic evolution
5.	app	dications of palynology. 1+5=6
٠.	71115	wer the following as directed: 1×5=5
	(a)	Law of Faunal Succession was proposed by
		(Fill in the blank)
). ): +3+10	(b)	The fauna which comprises exclusively of active swimmers is described as  (i) plankton
		(ii) nekton
		(iii) benthic
		(iv) pelagic
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		( Continued )

- (c) The foraminifera belong to the class
  - (i) Sarcodina
  - (ii) Sporozoa
  - (iii) Flagellata
  - (iv) Mastigophora
    ( Choose the correct one )
- (d) The shell of a Pelecypoda consists of
  - (i) two equal but inequilateral valves
  - (ii) two unequal but equilateral valves
  - (iii) two equal and equilateral valves
  - (iv) None of the above (Choose the correct one)
- (e) 'Petrification' is a type of fossilization where
  - (i) the original form is preserved
  - (ii) the original form and structure are preserved
  - (iii) the entire organism is preserved
  - (iv) only the hard parts are preserved (Choose the correct one)

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