5 SEM TDC GEO M 1

2019

(November)

GEOLOGY

(Major)

Course: 501

(Palaeontology)

Full Marks: 48
Pass Marks: 19/14

Time: 2 hours

The figures in the margin indicate full marks for the questions

- 1. What is fossil? What are the types of fossil? Write about different processes of formation of fossils in different physico-chemical conditions.

 1+3+6=10
- 2. Write short notes on any two of the following: 5×2=10
 - (a) Nomenclature of fossils
 - (b) Palynology and palaeobotany
 - (c) Application of fossils in palaeoclimatic studies

	OND OUT WINE 9
3.	Give a descriptive note on shell morphology, stratigraphic significance and geological occurrence with neat and clean sketch on any <i>one</i> of the following: 5+2+2+1=10
	(a) Cephalopoda
	(b) Brachiopoda
	(c) Trilobita
4.	Write briefly on any <i>two</i> of the following: $3\frac{1}{2}\times2=7$

- (a) Subdivisions of plant fossils of India
- (b) Range zone and interval zone
- (c) Petrification
- 5. What is organic evolution? Write about prevailing theory of evolution with suitable example. 2+4=6
- 6. Fill in the blanks (any five): 1×5=5
 - (a) In 1825, the term Palaeontology was coined by _____.
 - (b) Fossils which range from ancient time up to the present day without significant change are called _____.
 - (c) Palaeo-proteins or amino acids may be referred to as ____ fossils.

(d)	Body of strata in which the maximum abundance of a particular fossil is found is called
(e)	Posterior protuberance in each valve of a Brachiopoda is called
(f)	The initial chamber of a Cephalopoda or Gastropoda shell is called
(g)	Trilobite body is divided into three segments, and the posterior segment is called

* * *