

2017

( 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 palaeogeographic reconstruction?  
Write briefly about different applications of  
fossils. 3+7=10
2. Describe with neat sketches the shell  
morphology and geological distribution of  
any one of the following : 7+3=10
  - (a) Brachiopoda
  - (b) Foraminifera
  - (c) Cephalopoda

3. Write notes on any *two* of the following :

5×2=10

- (a) Type of fossils and law of priority of binomial nomenclature of fossils
- (b) Modes of preservation of fossils
- (c) Plant fossils of India

4. Write briefly on any *two* of the following :

3½×2=7

- (a) Reworked fossil and leaked fossil
- (b) Application of palynology
- (c) Biostratigraphical significance of life

5. Write briefly on the evolution of organic life throughout the geological history.

6

6. Answer the following as directed :

1×5=5

- (a) The term 'paleontology' was coined by \_\_\_\_\_.

( Fill in the blank )

- (b) Fossils which range from ancient time up to the present-day without any change in their primitive characters are known as \_\_\_\_\_ fossils.

( Fill in the blank )

- (c) \_\_\_\_\_ is an interval between two distinct biostratigraphical horizons.

( Fill in the blank )

- (d) La Brea Tar Pit is significant for
- (i) extraction of gold
  - (ii) study of marine organisms
  - (iii) asphaltum bitumen that preserves mammal fossils
  - (iv) None of the above

( Choose the correct answer )

- (e) Corals belong to which class?

- (i) Protozoa
- (ii) Anthozoa
- (iii) Crinoidea
- (iv) None of the above

( Choose the correct answer )

★ ★ ★