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5 SEM TDC GEO M 1

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(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. Define correlation. Write about applications of fossils in stratigraphic correlation. 2+8=10
2. Describe with neat sketches the shell morphology, geological distribution and stratigraphic significance of any one of the following : 7+3=10
 - (a) Gastropoda
 - (b) Pelecypoda
 - (c) Echinoidea

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

5×2=10

- (a) Theories of evolution
- (b) Use of fossils in petroleum exploration
- (c) Plant fossils of Gondwana

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

3½×2=7

- (a) Mold fossil, cast fossil and ichno fossil
- (b) Application of palynology in paleogeographic reconstruction
- (c) Vertebrate fossils of India

5. Write briefly on evolution and mass extinction of life throughout geological history.

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6. Answer the following as directed :

1×5=5

- (a) Mention the major subdivisions of plant groups.
- (b) The most dependable index fossils of Cambrian period are _____.

(Fill in the blank)

(c) Sea anemones belong to which class?

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

(Choose the correct answer)

(d) Suture lines with simple to very complex folds are shown by

- (i) Gastropoda
- (ii) Cephalopoda
- (iii) Brachiopoda
- (iv) None of the above

(Choose the correct answer)

(e) Pseudo fossils are

- (i) produced by geological process
- (ii) produced by biological process
- (iii) created by men
- (iv) None of the above

(Choose the correct answer)
