

**2018**

**CBCS**

**3rd Semester**

**GEOLOGY**

**PAPER—GE3T**

**(Honours)**

*Full Marks : 40*

*Time : 2 Hours*

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

*Answer all questions.*

***Fossils and their Applications***

***Group—A***

**1. Answer any five questions :**

**5×2**

- (a) Write about the physical-mechanical method in fossil preparation.

- (b) State the Law of priority.
- (c) Write the names of different biozones.
- (d) Define syntype and paratype species.
- (e) Define cast fossil.
- (f) What do you understand by geographical isolation ?
- (g) Define sibling species.
- (h) Define homonym and synonym.

**Group—B**

2. Answer any *four* questions : 4×5

(a) (i) What are the causes of incomplete fossil record ?

(ii) Define index fossil. 3+2

(b) Write the applications of fossils in the study of paleoecology. 5

- (c) (i) Write a short note on Ichnofossil.
- (ii) Write the names of five major mass extinction events. 3+2
- (d) Write about the characteristics of Agnatha and Chondrichthyes. 5
- (e) Write about the controlling factors for the occurrence and abundance of an organism in a particular environment. 5
- (f) Write about the types of barriers in palaeobiogeography. 5

**Group—C**

3. Answer any one question : 1×10

- (a) Write briefly about the role of fossils in development of geological time scale. Write about the different types of biogeographical distributions. 6+4

- (b) Write the role of palaeontology in hydrocarbon exploration. Write a short note on protozoa. 7+3
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