

2019

B.Sc. (Hons.)

4th Semester Examination

GEOLOGY (Honours)

Paper—C10T

Phanerozoic Stratigraphy of India

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

**Group-A**

Answer any five questions :  $2 \times 5 = 10$

1. Name two basins of India, where K-T boundary can be demarcated.
2. Name two siwalik mammal fossils.
3. Mention the structural set-up of Andaman.
4. What was the environment of deposition of the Gondwana ?
5. Name the major oil-producing formations of the Assam basin.

[ Turn Over ]

- Which fossils, mark the beginning of the Triassic in the Himalayan basin and at the base of the panchet formation ?
- What tectonic event occurred during the plio-pleistocene in the Saurashtra Peninsula ?
- What are the equivalents of Raniganj and Panchet Formations in Godavari and Rewa basins ?

### Group-B

Answer any *four* questions :  $5 \times 4 = 20$

- Write down the Mesozoic successions of Spiti mentioning broad lithologies and fossil assemblages.
- Write a short note on Agglomeratic State Formation.
- Write an account of the Jurassic stratigraphy of Kutch.
- Write down the sedimentary history of Kashmir.
- (a) Write the two-fold and three-fold classification scheme for Gondwana.  
(b) What marks the upper and lower age limit of Gondwana ?  $3+2$
- Write short note on Lameta formation.

( 3 )

**Group-C**

Answer any *one* question :  $10 \times 1 = 10$

15. (a) Comment on the lithology and fossil content of the intertrappean beds within the Deccan traps mentioning their importance in finding out the age of Deccan volcanism.
- (b) What was the condition of deposition of the Barails ?
- (c) Name two index fossils of the Trichinopoly area.  $5+3+2$
16. Write short note on any *two* of the following :  $5+5$
- (i) Barakar Formation
- (ii) Pc-C boundary
- (iii) Muth quartzite.
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