

B.Sc. Semester-IV Examination, 2022-23**GEOLOGY [Honours]**

Course ID : 42013 Course Code : SH/GEL/403/C-10(T)

Course Title : Phanerozoic Stratigraphy of India

Time : 1 Hour 15 Minutes Full Marks : 25

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

1. Answer any **five** questions of the following: $1 \times 5 = 5$
 - a) Which rock constitutes the *Rajmahal Trap*?
 - b) What is the significance of Precambrian-Cambrian boundary?
 - c) Write the name of the fault which separates Siwalik from Lesser Himalaya.
 - d) Which fossil fuel makes Assam Basin economically important?
 - e) Which stratigraphic province of India is reported with fossil of fish?
 - f) Which stratigraphic succession contains Dhosa Oolite bed?

- g) What is the significance of Megahalayan Age of Holocene Epoch?
- h) What is the significance of terrace analysis in Quaternary Geology?

2. Answer any **two** questions of the following: $5 \times 2 = 10$
 - a) Briefly discuss the signature of marine incursions within Lower Gondwana succession.
 - b) Write a short note on Cretaceous succession of Narmada Basin, Central India.
 - c) Briefly discuss the volcanic events during the Cretaceous period in India.
 - d) Write a short note on Lower Gondwana flora.
3. Answer any **one** question of the following: $10 \times 1 = 10$
 - a) Write down the Jurassic stratigraphic succession of Kutch with special emphases of age, lithology and characteristic fossil assemblages of each unit.
 - b) Write down the stratigraphic sequence of Assam Basin. Briefly discuss the tectonics and sedimentation of the basin. $5 + 5 = 10$