

**B. Sc. 4<sup>th</sup> Semester (Honours) Examination, 2021**

**GEOLOGY**

**Course Id: 42013**

**Course Code: SHGEL-403C-10(T)**

**Course Title: Phanerozoic Stratigraphy of India**

**Time: 1 Hour 15 Minutes**

**Full Marks: 25**

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

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

1. Answer *any five* of the following questions: 1x5 = 5
- Which volcanic rock mainly constitutes the Decan Trap?
  - Which stratigraphic succession of India contains *Equus sivalensis*?
  - What is the age of the Lameta Formation in the Narmada basin?
  - Which Phanerozoic basin of India contains the Jalangi Formation?
  - What is the age of the Permo-Triassic boundary?
  - Which fossil fuel makes the Lower Gondwana rocks economically important?
  - Write the name of the volcanic event that occurred at the end of the Cretaceous age in India.
  - Which stratigraphic succession includes the Dhok Pathan Formation?

2. Answer *any two* of the following questions: 5x2 = 10
- Write down the Palaeozoic succession of Kashmir.
  - Furnish the generalized stratigraphic succession of the Assam basin.
  - Briefly describe the Lower Gondwana flora.
  - Match the following columns:

i. Ammonite	A. Siwalik
ii. Glossopteris	B. Kutch basin
iii. Karai Shale	C. Jurassic
iv. Rajmahal trap	D. Gondwana
v. Main Boundary Fault	E. Cauvery basin

3. Answer *any one* of the following questions: 10x1 = 10

- a. Briefly discuss on palaeoclimate and depositional history of the Gondwana rocks.

5+5=10

- b. Write down the Jurassic stratigraphic succession of Kutch providing characteristic fossil assemblages of each unit.

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