6 SEM TDC DSE GEO (CBCS) 2 (H)

2025

(May)

GEOLOGY

(Discipline Specific Elective)

(For Honours)

Paper : DSE–2

(Geology of North-East India)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT—I

(Physiographical Overview)

(*Marks : 11*)

1. Fill in the blanks :　　　　　　　　1×2=2

   (a) The Lohit thrust demarcates the eastern boundary of ____. (Eastern Himalaya/Sikkim Arunachal Himalaya)

　　　　　　　(*Turn Over*)

(b) The _____ rock is exposed in Brahmaputra in Biswanath Chariali.

2. Mention the different major physiographies of India.   3

3. Write short notes on the following (any *two*) :   3×2=6

    (a) Mikir Hills

    (b) Tripura-Cachar Fold Belt

    (c) Tethyan Himalaya

UNIT—II

(Stratigraphical Overview)

(*Marks :* 10)

4. Fill in the blanks :   1×2=2

    (a) The duration of the Mesozoic Era in Ma is _____.

    (b) Paleogene includes _____ epochs of Tertiary period.

5. Discuss the tertiary stratigraphy of North-East India.   8

Or

Describe the stratigraphy of paleozoic rocks of Arunachal Pradesh.

    (*Continued*)

UNIT—III

(Geological Features)

(*Marks* : 17)

6. Discuss the oceanic pelagic sedimentation and development processes of upper Assam shelf.　　　　　　10

Or

Discuss the evolutionary history of Brahmaputra river.

7. Write short notes on the following (any *three*) :

　　　　　　2×3=6

(a) Ophiolite zone of Nagaland

(b) Andaman-Nicobar Arc System

(c) Kopili Lineament

(d) Dauki Fault

(e) Arakan-Yoma Folded Belt

8. Meghalaya plateau is a part of ＿＿＿.　　1

(Fill in the blank)

UNIT—IV

(Economic Significance)

(*Marks* : 8)

9. Answer the following as directed :　　1×2=2

(a) The primary component of crude oil is ＿＿＿.

(Fill in the blank)