PG Even Semester Exam, 2023

Earth Science

2nd Semester

COURSE NO. ESCOC- 204

[Geology, Tectonics and Mineral Resources of North East India]

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, taking one from each Unit

UNIT-I

1. a. Depict the lithostratigraphy of Nagaland. 7

   b. Write an account on the mineral resources of Nagaland. 7

2. Write descriptive notes on the following: 7x2=14

   a. Kohima Synclinorium

   b. Naga Hills Ophiolite

UNIT-II

3. Write an account on the lithology of Meghalaya. Add a note on the structure and tectonics of Shillong plateau. 8+6=14

Turn over

4. Write short notes on the following: 5+5+4=14

   a. Sung valley UAC Complex

   b. Shillong Group of rocks

   c. Mahadek Sandstone

UNIT-III

5. Discuss in detail the stratigraphy of Upper Assam basin. Add a note on the mineral resources of Assam. 8+6=14

6. Give a detailed illustration on geological history and tectonics of Assam Arakan basin. 7+7=14

UNIT-IV

7. a. Write a descriptive note on tectonic framework of Nagaland-Manipur ophiolite belt. 7

   b. Depict the mineral resources associated with Nagaland-Manipur ophiolite belt. 7

8. Write on the lithology, structure and tectonics of Manipur. Add a note on the Cenozoic fauna of Manipur. 9+5=14

UNIT-V

9. a. Outline the lithostratigraphy of Cachar-Tripura and Mizoram fold belt. 7

   b. Illustrate the structure and tectonics of Cachar-Tripura-Mizoram fold belt. 7

10. Discuss the Hydrocarbon potential of Cachar-Tripura-Mizoram fold belt. Add a note on the mineral resources of Tripura. 10+4=14

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