CBCS SCHEME

USN | | | | | | | | | | |

18MN45

Fourth Semester B.E. Degree Examination, July/August 2022
Geology for Mining Engineers

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1   a. Define 'Fault'. Explain different types of faults with neat diagrams.   **(10 Marks)**
    b. What are 'Unconformity'? Explain the different type of unconformities.   **(10 Marks)**

OR

2   a. What are 'Joints'? Explain the different types of Joints with neat diagrams.   **(10 Marks)**
    b. Write note on 'Topographic Maps'.   **(10 Marks)**

Module-2

3   a. Describe Igneous Rocks. Explain their formation.   **(10 Marks)**
    b. Explain the classification of Igneous Rocks.   **(10 Marks)**

OR

4   a. Write short notes on: (i) Dyke   (ii) Sill   **(10 Marks)**
    b. Explain Batholith with a neat diagram.   **(10 Marks)**

Module-3

5   a. Write a note on the scope of economic geology in mineral industry.   **(10 Marks)**
    b. Write short notes on: (i) Ore mineral   (ii) Gangue mineral   **(10 Marks)**

OR

6   a. Explain hydrothermal deposits.   **(10 Marks)**
    b. Describe the origin, occurrence and distribution of iron ores deposits in India.   **(10 Marks)**

Module-4

7   a. Explain different methods of mineral exploration.   **(10 Marks)**
    b. Explain geophysical techniques and drilling technique in mineral exploration.   **(10 Marks)**

OR

8   a. Describe the following: (i) Gravity method   (ii) Magnetic method   **(10 Marks)**
    b. Define 'sampling'. Explain any two methods in detail.   **(10 Marks)**

Module-5

9   a. Explain physical and chemical properties of coal.   **(10 Marks)**
    b. Explain migration of petroleum and natural gas.   **(10 Marks)**

OR

10 a. Write a note on uses of Natural Gas.   **(10 Marks)**
    b. List the major coal fields of India.   **(10 Marks)**

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