

Course: B. Tech. Branch : Civil Engineering Semester : IV

Subject Code & Name: BTCVC406 Engineering Geology

Max Marks: 60

Date:30/08/2022

Duration: 3.45 Hr.

Instructions to the Students:

1. All the questions are compulsory.
2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question.
3. Use of non-programmable scientific calculators is allowed.
4. Assume suitable data wherever necessary and mention it clearly.

(Level/CO) Marks

Q.1 Solve Any Two of the following.

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|--|-----|---|
| ✓ A) Give applications of Geology in Civil Engineering | CO1 | 6 |
| B) Name four physical features of earth and explain any one. | CO1 | 6 |
| C) Explain geological work of river w.r.t erosion. | CO1 | 6 |

Q.2 Solve Any Two of the following.

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|--|-----|---|
| ✓ A) Name four properties of Mineral and explain lusture in short. | CO2 | 6 |
| B) Define Sedimentary rocks and metamorphic rocks. | CO2 | 6 |
| C) Define Igneous Rock & its classification on any one basis. | CO2 | 6 |

Q.3 Solve Any Two of the following.

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|---|-----|---|
| A) Explain the terms Outcrop, Strike and Dip. | CO3 | 6 |
| ✓ B) Define Fold. Describe Anticline & Syncline Fold? | CO3 | 6 |
| C) Give the six main requirements of good Building Stone? | CO3 | 6 |

Q.4 Solve Any Two of the following.

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|--|-----|---|
| ✓ A) Explain Preliminary geological survey in detail. | CO4 | 6 |
| B) Give various favorable and unfavorable geological conditions for reservoir site | CO4 | 6 |
| C) Give six Site improvement techniques for structures as reservoir. | CO4 | 6 |

Q.5 Solve Any Two of the following.

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|---|-----|---|
| A) Give Limitations of exploratory drilling method. | CO4 | 6 |
| B) Explain terms core loss and core recovery. | CO4 | 6 |
| C) Write a short note on preservation of cores. | CO4 | 6 |

*** End ***