**20CE103**

**Hall Ticket Number:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **I/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION** | | | |
| **March, 2023** | **Civil Engineering** | | |
| **First Semester** | **Introduction to Civil Engineering** | | |
| **Time:** Three Hours | | **Maximum:**70 Marks | |
| *Answer Question No.1 compulsorily.* | | | (1X14 = 14 Marks) |
| *Answer ONE question from each unit.* | | | (4X14=56 Marks) |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Answer all questions | | | | | (1X14=14 Marks) | | | | |
|  | a) | | | Define civil engineering. | | CO1 | | L1 | |  |
|  | b) | | | Define bridge. | | CO1 | | L1 | |  |
|  | c) | | | What is meant by infrastructure development? | | CO1 | | L1 | |  |
|  | d) | | | What are the uses of a retaining wall? | | CO1 | | L1 | |  |
|  | e) | | | Mention any two types of buildings as per the classification of National Building Code. | | CO1 | | L2 | |  |
|  | f) | | | List the types of dams. | | CO1 | | L1 | |  |
|  | g) | | | Define runway. | | CO1 | | L1 | |  |
|  | h) | | | Define weathering. | | CO1 | | L1 | |  |
|  | i) | | | Define geology. | | CO1 | | L2 | |  |
|  | j) | | | What is the instrument used for measurement of distances? | | CO1 | | L1 | |  |
|  | k) | | | If scale is1 =10 m then what is R.F? | | CO1 | | L3 | |  |
|  | l) | | | Define surveying. | | CO1 | | L1 | |  |
|  | m) | | | Differentiate between plan and map. | | CO1 | | L1 | |  |
|  | n) | | | What are the instruments used in chain surveying? | | CO1 | | L1 | |  |
|  | | |  | | **UNIT I** | | | | | |
| 2 | |  | | Explain about the various domains in civil engineering. | | CO1 | L1 | | 14M | |
|  | | |  | | **(OR)** | | | | | |
| 3 | |  | | Write about the role and responsibilities of civil engineer in the society. | | CO1 | L3 | | 14M | |
|  | | |  | | **UNIT II** | | | | | |
| 4 | |  | | Describe in detail about the classification of roads. | | CO2 | L1 | | 14M | |
|  | | |  | | **(OR)** | | | | | |
| 5 | |  | | Explain in detail about the classification of bridges. | | CO2 | L3 | | 14M | |
|  | | |  | | **UNIT III** | | | | | |
| 6 | |  | | Explain about the types of land forms. | | CO3 | L2 | | 14M | |
| **(OR)** | | | | | | | | | | |
| 7 | |  | | Explain about the types of mass wasting. | | CO3 | L1 | | 14M | |
|  | | |  | | **UNIT IV** | | | | | |
| 8 | |  | | Explain the classification of surveying based on instruments. | | CO4 | L1 | | 14M | |
|  | | |  | | **(OR)** | | | | | |
| 9 | |  | | Explain the classification of surveying based on instruments. | | CO4 | L2 | | 14M | |

****