**20CE204**

**Hall Ticket Number:**

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| **I/IV B.Tech (Regular / Supplementary) DEGREE EXAMINATION** | | | |
| **September, 2022** | **Civil Engineering** | | |
| **Second Semester** | **Building Materials, Planning and Construction** | | |
| **Time:** Three Hours | | **Maximum: 7**0 Marks | |
| ***Answer question 1 compulsory.*** | | | **(14X1 = 14 Marks)** |
| ***Answer one question from each unit.*** | | | **(4X14=56 Marks)** |

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| 1. | a) | For a good building stone how much is the required crushing strength? | | CO1 | |  |
|  | b) | What are the qualities of good brick earth? | | CO1 | |  |
|  | c) | Poor lime contains more than % of clay. | | CO1 | |  |
|  | d) | Define Seasoning. | | CO1 | |  |
|  | e) | What are the different types of bonds in brick work? | | CO2 | |  |
|  | f) | State the difference between load & non-loading bearing walls. | | CO2 | |  |
|  | g) | Define floor. | | CO2 | |  |
|  | h) | What are the different types of flat roofs? | | CO2 | |  |
|  | i) | What are the causes of dampness in a structure? | | CO3 | |  |
|  | j) | What are the components of a stair case? | | CO3 | |  |
|  | k) | Is the most common type of scaffolding and is widely used in the construction of brickwork. | | CO3 | |  |
|  | l) | When building bye-laws came into force? | | CO4 | |  |
|  | m) | Define aspect ratio. | | CO4 | |  |
|  | n) | A building can be mainly divided into how many parts and state them. | | CO4 | |  |
| **Unit-I** | | | | | | |
| 2. | a) | How the composition of a good brick earth will be achieved? | CO1 | | 7M | |
|  | b) | What are the sources of lime? | CO1 | | 7M | |
|  |  | **(OR)** |  | |  | |
| 3. | a) | What are the advantages & uses of a timber? | CO1 | | 7M | |
|  | b) | Explain about qualities of a good building stone. | CO1 | | 7M | |
|  |  | **Unit-II** |  | |  | |
| 4. | a) | Explain about classification of stone masonry. | CO2 | | 7M | |
|  | b) | What are the different types of flat roof and explain. | CO2 | | 7M | |
|  |  | **(OR)** |  | |  | |
| 5. | a) | What are the different types of floors and explain. | CO2 | | 7M | |
|  | b) | Illustrate about the classification of walls. | CO2 | | 7M | |
|  |  | **Unit-III** |  | |  | |
| 6. |  | What are the components of a stair case and explain. | CO3 | | 14M | |
|  |  | **(OR)** |  | |  | |
| 7. | a) | What are the methods of preventing dampness? | CO3 | | 7M | |
|  | b) | Explain different types of formwork. | CO3 | | 7M | |
|  |  | **Unit-IV** |  | |  | |
| 8. | a) | What are the guide lines for selecting door & window? | CO4 | | 7M | |
|  | b) | Explain about building regulations and bye-laws of a building. | CO4 | | 7M | |
|  |  | **(OR)** |  | |  | |
| 9. |  | Mention about various conventional signs of materials used in building construction? | CO4 | | 14M | |

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