** D.Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY**

**KASABA BAWADA KOLHAPUR - 416006**

**Set-: I**

**Q. Paper Code:**

**22SYCE2013205**

**(An Autonomous Institute)**

S. Y. B. Tech (Civil), Sem-III

**END SEMESTER EXAMINATION, Jan. 2023**

Course Name: **Building Construction and Materials,** Course Code: **201CEL205**

Seat No:

**Day and Date: Wednesday, 25.01.2023**

**Time: 2.00 pm to 4.30 pm Max. Marks- 50**

***Instructions:***

1. *Question No. 1&2 is compulsory.*
2. *Figure to the right indicate full marks.*
3. *Solve only* ***Q.2*** *onto* ***drawing sheet*** *to the appropriate scale.*
4. *Draw neat sketches supporting your answers.*

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| **BT** | **CO’s** | **Q. No.** |  | **Marks** |
|  |  | **Q.1** | **All Questions are compulsory** | **20 M** |
| **2** | **CO1** | **a** | Enlist different types of bond in Brick masonry. Explain English Bond with neat sketch of 1½ brick thick wall. | 6M |
| **1** | **CO2** | **b** | Write a short note on  i) Concrete flooring  ii) Column formwork | 8 M |
| **3** | **CO3** | **c** | Draw neat sketch of Paneled door with single shutter and two panels and label various parts. (Proportionate sketch) | 6 M |
|  |  | **Q.2** | **Question is compulsory** | **15 M** |
| **4** | **CO4** |  | Design and draw plan and sectional elevation of RCC quarter turn staircase for residential building having floor height 3.3m. Assume suitable data as per requirement. Use scale 1:25.  **OR**  Design and draw plan and section of RCC dog legged staircase for the following data:  Storey height = 3m; Stair width = 1m; Staircase size = 2m X 4.5m  Scale 1:25. Assume suitable data wherever necessary. | 15  15 |
|  |  | **Q.3** | **All questions are compulsory** | **8 M** |
| **2** | **CO3** | **a** | Explain various methods and systems used for water proofing. | 8 |
|  |  | **Q.4** | **All questions are compulsory** | **7 M** |
| **1** | **CO3** | **a** | Write short note on Air conditioning. | 7 |

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