** 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** |
| **3** | **CO1** | **a** | Draw plan and sectional elevation of an Isolated column footing with RCC details. | 6M |
| **1** | **CO2** | **b** | Write a short note on Queen post roof truss. | 7 M |
| **3** | **CO3** | **c** | Enlist the types of Lintels. Briefly explain any three types. | 7 M |
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|  |  | **Q.2** | **Question is compulsory** | **15 M** |
| **4** | **CO4** |  | Design a RCC Dog legged staircase for residential building in which a distance between floors is 3m and a stair hall measures 2.2m X 4.5m internally. Draw plan and sectional elevation with scale 1:25.  Assume suitable data wherever necessary.  **OR**  Design and draw plan and section of RCC open well staircase for residential apartment using the following data:  Floor height = 3.2m; Stair width = 1.2m; Staircase size = 4.2m X 3.6m  Scale 1:25. Assume suitable data wherever necessary. | 15M  15M |
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|  |  | **Q.3** | **All questions are compulsory** | **7 M** |
| **2** | **CO3** | **a** | Explain the defects in plastering. | 7M |
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|  |  | **Q.4** | **All questions are compulsory** | **8 M** |
| **1** | **CO3** | **a** | What are the functional requirements of ventilation system? | 4M |
| **1** | **CO3** | **b** | What are the constructional measures of noise control? | 4M |

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