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

**KASABA BAWADA KOLHAPUR-416006**

**(An Autonomous Institute)**

**II**

**Q. Paper Code:**

**23SYCE217403**

S. Y. B. Tech/(Civil)

**END SEMESTER EXAMINATION(ESE), May-June–2023**

Course Name: Building Planning and Design, Course Code: 201CEL213

Seat No:

**Day and Date: Thursday, 10.06.2023**

**Time: 10.00 am to 2.00 pm Max. Marks- 100**

**Instructions:**

**i. Question No****. 1& 4 amp; is compulsory.**

**ii. Figure to the right indicate full marks.**

**iii. Assume suitable data whenever necessary.**

**iv. Use drawing sheets for the attempt of Question No.1& 4**

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| **BT** | **CO’s** | **Q. No.** |  | **Marks** |
|  | | **Q.1** | **All Questions are compulsory** | **30** |
| **a** | A (G+1) storied residential bungalow for a **Bank Manager** is to be constructed on a rectangular plot of size 16m x 20m. Plot width 16m. facing on 9.0m wide road on East side.  Design bungalow for following data:  Office with independent entrance – 1(Area Min. 25 m2), Living Room: 1, Kitchen: 1 and Dinning: 1, Store room: 1 and Utility: 1, Master Bed Room with attach toilet: 2 No. Children Bed Room: 1, Guest Bed Room: 1, Staircase: dog ledged, Sanitary Block as per requirement. The necessary verandah, porch, parking should be provided in the design. |
| **2,3** | **CO1** | **I** | Draw with the scale 1:100 detailed developed Ground floor and First floor plan with suitable wall thickness and marginal distances. | **25** |
| **2,3** | **CO1** | **II** | Site Plan of building planned above with scale. | **5** |
|  | | **Q.2** | **All Questions are compulsory** | **10** |
| **1,2** | **CO3** | **a** | Write a note on: Concept of Earthing. | **4** |
| **1,2** | **CO3** | **b** | Give types of traps with detail diagrams. | **6** |
|  | | **Q.3** | **All Questions are compulsory** | **10** |
| **1,2** | **CO2** | **a** | Enlist the Elements of perspective drawings. | **3** |
| **1,2** | **CO2** | **b** | Describe Principles of building aesthetics. | **7** |
|  | | **Q.4** | **All Questions are compulsory** | **15** |
| **1,2** | **CO2** | **a** | Assume a plan and elevation of Rectangular Block. Draw to a suitable scale Two-point perspective view of the same. Retain all construction lines. Assume eye level at 2.0 m above G.L. The observer stands at 4.5m along central visual ray. | **15** |
|  | | **Q.5** | **All Questions are compulsory** | **20** |
| **1** | **CO2** | **a** | Explain Types of Perspective drawing. | **6** |
| **1,2** | **CO1** | **b** | Write in detail on Principles of building Planning. | **7** |
| **1,2** | **CO1** | **c** | Define Building Byelaws for public buildings. | **7** |
| **OR** | | | | |
| **1,2** | **CO3** | **c** | Give types of traps with detail diagrams. | **7** |
|  | | **Q.6** | **All Questions are compulsory** | **15** |
| **1,2** | **CO1** | **a** | Explain concept of Low-Cost Housing | **5** |
| **1,2** | **CO1** | **b** | Explain Green building concept. | **5** |
| **1,2** | **CO1** | **c** | Write a note on: eco-tourism. | **5** |
| **OR** | | | | |
| **1,2** | **CO3** | **c** | Write a note on: Concept of Earthing. | **5** |