**Set-: I**

**Q. Paper Code:**

**23SYCE203303**

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

**KASABA BAWADA KOLHAPUR-416006**

**(An Autonomous Institute)**

**S. Y. B. Tech Civil (Semester-III)**

**END SEMESTER EXAMINATION, Dec. – 2022**

Course Name: **Concrete Technology,** Course Code: **201CEL203**

Seat No:

**Day and Date: Friday, 20.01.2023**

**Time: 2.00 pm to 4.00 pm Max. Marks- 50**

***Instructions:***

1. *Question No. 1&2 is compulsory.*
2. *Figure to the right indicate full marks.*

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| **BT** | **CO’s** | **Q.No.** |  | | **Marks** |
|  |  | **Q.1** | **All Questions are compulsory** | | **20** |
| **2** | **203.1** | **a** | Explain Manufacturing process of cement |  | **6M** |
| **2** | **203.2** | **b** | Explain factors affecting workability | **7 M** |
| **2** | **203.2** | **c** | Explain Schmidt’s rebound hammer test | **7 M** |
|  | | | | | |
|  |  | **Q.2** | **All Questions are compulsory** | | **10** |
| **2** | **203.3** | **a** | Explain Objectives of mix design, |  | **4** |
| **2** | **203.3** | **b** | Explain Procedure of mix design by IS Code method using IS 10262-2019  **OR**  Explain Procedure of mix design by ACI 211.1-1991 method. | **6** |
|  | | | | | |
|  |  | **Q.3** | **All Questions are compulsory** | | **10** |
| **2** | **203.3** | **a** | Define Plasticizers and Superplasticizers.  **OR**  Write a note on Air Entraining Agents. |  | **3** |
| **2** | **203.2** | **b** | Explain Retarders, Accelerators. | **7** |
|  | | | | | |
|  |  | **Q.4** | **Attempt any two out of three questions** | | **10** |
| **2** | **203.4** | **a** | Explain Self compacting concrete. |  | **5** |
| **2** | **203.4** | **b** | Explain Ready Mixed Concrete. | **5** |
| **2** | **203.4** | **C** | Explain Green Concrete | **5** |

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