**Set-: II**

**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.** | **MARKING SCHEME** | | **Marks** |
|  |  | **Q.1** | **All Questions are compulsory** | | **20** |
| **2** | **203.1** | **a** | Explain Manufacturing process of cement.**(Explaination 6M)** |  | **6M** |
| **2** | **203.2** | **b** | Explain factors affecting workability. **(Explaination 7M)** | **7 M** |
| **2** | **203.2** | **c** | Explain Schmidt’s rebound hammer test. **(Explaination 7M)** | **7 M** |
|  | | | | | |
|  |  | **Q.2** | **All Questions are compulsory** | | **10** |
| **2** | **203.3** | **a** | Explain Objectives of mix design. **(Explaination 3M )** |  | **3** |
| **2** | **203.3** | **b** | Explain Procedure of mix design by IS Code method using IS 10262-2019. **(Stepwise Procedure, 7 steps - 7M)**  **OR**  Explain Procedure of mix design by ACI 211.1-1991 method. **(Stepwise Procedure, 8 steps - 7M)** | **7** |
|  | | | | | |
|  |  | **Q.3** | **All Questions are compulsory** | | **10** |
| **2** | **203.3** | **a** | Define Plasticizers and Superplasticizers. **(Each definition 1.5M)** |  | **3** |
| **2** | **203.2** | **b** | Explain Retarders, Accelerators.**(Explaination Retarders 3.5M and Accelerators 3.5M)** | **7** |
|  | | | | | |
|  |  | **Q.4** | **Attempt any two out of three questions** | | **10** |
| **2** | **203.4** | **a** | Explain Self compacting concrete. **(Explaination 5M)** |  | **5** |
| **2** | **203.4** | **b** | Explain Ready Mixed Concrete.**(Explaination 5M)** | **5** |
| **2** | **203.4** | **C** | Explain Green Concrete**(Explaination 5M)** | **5** |

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