**INSTRUCTIONS:**

1. All questions are compulsory. 2. Assume suitable data wherever necessary.

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| **Q. No.** | | **Question** | **Mark** | **CO** |
| 1 | a | Explain generalization and inheritance with example | 6 | **1** |
| b | Define State. Draw and Explain state diagram for ATM machine. | 8 | **3** |
| 2 | a | What is data flow diagram? List Elements of DFD and explain briefly | **8** | **2** |
| **OR** | | | |
| a | Explain States and Events with Example. | **8** | **1** |
| b | Explain following terms  1. Propagation of operations 2. Multiplicity  3. Metadata 4. Aggregation versus association | **8** | **1,2** |

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| C:\Documents and Settings\civil\Desktop\Daulatrao AHER Symbol 2014.jpg | G.K. Gujar Memorial Charitable Trust’s | |
| **Dr. Ashok Gujar Technical Institute’s,** | |
| **Dr. Daulatrao Aher College of Engineering, Karad.** | |
| Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA | |
| Course Code & Name: CS503 OOMD | | *DACOE/EXM-FRM-11* |
| Program: Computer Science and EngineeringAcademic Year 2021 -2022 Semesters: VI Div: TY Btech | | *EXM-FRM-11- Rev. No: 0 Date:* |
| Day & Date: Thursday, 11/11/21 Time : 10 am - 11 am | | Marks: 30 |
| **Unit Test: I** | | |

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