

Reg. No.:

Name :



VIT[®]
BHOPAL
www.vitbhopal.ac.in

Winter 2021-22 – Block 1, CAT-I Class Test – February 2022

Programme	: BAI, BCE, MIM	Semester	: Winter 21-22-Block-1
Course	: Java Programming	Course Code	: CSE3002
Faculty	: Dr Muneeswaran V	Slot/ Class No.	: C21 + C22 + C23 + E21 + E22 + E23 / 0047
Time	: 30 Mins.	Max. Marks	: 10

Answer all the Questions

Q.No.	Question Description	Marks
1	<p>Create the necessary classes in JAVA for following UML diagrams:</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p style="text-align: center; background-color: #cccccc;">User</p> <p>+first_name:String +dob:Date +addr:Address +pin:int</p> <p>+User():void +User(String, Date, String):void +setName(String):void +getName():String +display():void +setCity(String):void +getCity():void</p> </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p style="text-align: center; background-color: #cccccc;">Date</p> <p>+dd:int +mon:String +yyyy:int</p> <p>+Date(int, String, int):void</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p style="text-align: center; background-color: #cccccc;">Address</p> <p>+country:String +city:String +street:String +dno:int</p> <p>+Address(String, String, String, int):void</p> </div> </div> <p>The function display() – reads user name, dob and address from user then print a string composed of the first two letter of the user’s country in Capital Letter, followed by a comma and then followed by user’s City in Small Letter, followed by a random number in the range of 100000 – 999999 which represents the pincode of the city.</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p style="text-align: center; background-color: #cccccc;">Super User</p> <p>+role_name:String</p> <p>+Super_User(String):void +setSName(String):void +getSName():String +displayUser():void</p> </div> <div style="width: 65%;"> <p>Super_User class has a relationship with User class, set role_name as doctor, nurse, administrator, surgeon, receptionist, janitor, and so on.</p> <p>Include methods in that class that are named according to the services provided by that person and that print an appropriate message. Create a main class to instantiate and exercise several of the classes.</p> <p>displayUser() method display the first two letter of the country name, followed by last five characters of city name, followed by role_name, followed by first_name (Capital Letter)</p> </div> </div>	10

