

Code No: MC1621/R16

MCA II Semester Regular Examinations, May-2017 OOPS THROUGH JAVA

Time: 3 Hours Max. Marks: 60 Answer Any **FIVE** Questions All Questions Carry Equal Marks Differentiate functional programming and object oriented programming. [6] What is an object in OOP? Write a short note on Constant Objects with suitable [6] example. 2. a Discuss clearly on various control statements (along with their syntax) available [6] with Java. b Explain the following concepts with suitable examples. [6] i) Data Encapsulation ii) Method Overriding iii) Portable 3. a Write about various ways of parameter passing mechanisms in Java with examples. [8] What is garbage collection? Explain how java performs garbage collection. b [4] Write an abstract class called Shape consists of area and perimeter methods? Define 4. a [6] subclasses named Circle, Triangle, and Rectangle to Shape class. Define a class Square to Rectangle. Write a test program that create an object of Circle, Triangle, Rectangle and Square and print the corresponding area and perimeters of the objects? b "Java indirectly supports multiple inheritance". Justify it and also give suitable Java [6] program. 5. a Discuss the following: [7] i) difference between string and string buffer ii) member access rules iii) daemon threads b What is user defined packages? Explain various steps involved in creating a package [5] with an example. 6. a Write a program that creates a thread forces preemptive scheduling for lower [6] priority threads. b Illustrate the creation of user defined exception with an example program. [6] Design an applet to display three buttons "Blue", "Black" and "White". The color of 7. a [5] the background changes according to the button pressed by the user. Also, write the HTML code to display the applet. b Discuss about border and card layout mangers with suitable Java programs. [7] 8. a Write a note on Java's delegation event model? [4] b Write a java program using the following i) JTable ii) Checkboxes iii) JTabbedPane [8]