Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April/May – 2017**

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| **Code :** | **14CS2040** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PROGRAMMING IN JAVA** | **Max. marks :** | **100** |

(For Media Students)

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. | a. | Write a java program to get a number as input from the user and check whether it is negative, even/odd or a prime number. | CO3 | 10 |
| b. | Explain in detail about the concept of JVM and byte code with its applications. | CO1 | 10 |
| (OR) | | | | |
| 2. |  | Explain in detail about operators in java with small pseudo codes. | CO2 | 20 |
| 3. |  | With necessary java programs explain in detail about different types of method overloading techniques in java. | CO2 | 20 |
| (OR) | | | | |
| 4. |  | Brief about classes and objects in Java. Write a java program to calculate volume of a cuboid using classes and objects technique. | CO1 | 20 |
| 5. |  | Explain the concepts of any 2 exception handling techniques using java program. | CO3 | 20 |
| (OR) | | | | |
| 6. |  | Explain in detail about data serialization with a java program. | CO2 | 20 |
| 7. |  | Write a java program to create a GUI consisting of 2 text fields named **Name** and **ID.**Below ID there has to be radio button to select gender. Below the gender selection, there has to be a drop down list to choose a particular subject from list of subjects(your choice). At the end implement a button named **Proceed.** Once the user clicks on the button display a message **Submitted Successfully** at your own position | CO3 | 20 |
| (OR) | | | | |
| 8. | a. | Write a java program to read a file named as "sample.txt" and display file size, last modified, length of contents. | CO1 | 10 |
|  | b. | Write a program to copy contents of one file to another. | CO1 | 10 |
|  | | **Compulsory:** |  |  |
| 9. |  | Write a java program on Producer Consumer problem and explain the concept of Inter Thread communication. | CO3 | 20 |

ALL THE BEST