**18CSI01**

**Hall Ticket Number:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **IV/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION** | | | |
| **November,2022** | **Institutional Elective (Common to all Branches)** | | |
| **Seventh Semester** | **Java Programming** | | |
| **Time:** Three Hours | | **Maximum: 5**0 Marks | |
| *Answer Question No. 1 Compulsorily.* | | | (10X1 = 10 Marks) |
| *Answer* ***ANY ONE*** *question from each Unit.* | | | (4X10=40 Marks) |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | a) | | What is byte code? | CO1 | | L2 | | 1M |
|  | b) | | List various data types used in java. | CO1 | | L3 | | 1M |
|  | c) | | Define constructor. | CO1 | | L1 | | 1M |
|  | d) | | List different types of inheritance. | CO2 | | L2 | | 1M |
|  | e) | | What is the difference between String and StringBuffer? | CO2 | | L3 | | 1M |
|  | f) | | Define an Exception. | CO3 | | L2 | | 1M |
|  | g) | | List any two character streams. | CO3 | | L2 | | 1M |
|  | h) | | What is an Applet? | CO4 | | L1 | | 1M |
|  | i) | | What is AWT? | CO4 | | L1 | | 1M |
|  | j) | | What are the Advantages of Swing over AWT. | CO4 | | L2 | | 1M |
|  | | **Unit - I** | | | | | | |
| 2. | a) | | Explain features of JAVA. | CO1 | L1 | | 5M | |
|  | b) | | Define Operator? List and explain different types of operators with examples | CO1 | L2 | | 5M | |
|  |  | | **(OR)** |  |  | |  | |
| 3. | a) | | Write a short note on arrays. Write a java program for matrix subtraction. | CO1 | L3 | | 5M | |
|  | b) | | List and explain different types of control statements in JAVA | CO1 | L1 | | 5M | |
|  | | **Unit - II** | | | | | | |
| 4. | a) | | Write about inheritance. How do you achieve Multiple inheritance in JAVA. | CO2 | L2 | | 5M | |
|  | b) | | Write a JAVA program using super keyword. | CO2 | L1 | | 5M | |
|  |  | | **(OR)** |  |  | |  | |
| 5. | a) | | Explain about packages. | CO2 | L3 | | 5M | |
|  | b) | | Write about any 5 string methods. | CO2 | L2 | | 5M | |
|  | | **Unit - III** | | | | | | |
| 6. | a) | | Explain about exception handling mechanism with an example program | CO3 | L4 | | 5M | |
|  | b) | | Explain how to handle multiple exceptions in java with an example. | CO3 | L2 | | 5M | |
|  |  | | **(OR)** |  |  | |  | |
| 7. | a) | | List and explain different byte oriented system in JAVA. | CO3 | L2 | | 5M | |
|  | b) | | Write a java program to copy one file to another. | CO3 | L1 | | 5M | |
|  | | **Unit - IV** | | | | | | |
| 8. | a) | | Write a java program to draw various shapes over applet using graphics class | CO4 | L2 | | 5M | |
|  | b) | | Show the applet life cycle methods with an example | CO4 | L3 | | 5M | |
|  |  | | **(OR)** |  |  | |  | |
| 9. | a) | | Write an applet to receive the value of the parameter message from the html file and display it in centered form. Explain your code. | CO4 | L1 | | 5M | |
|  | b) | | Illustrate the steps involved in creating JLabel, JTextField, JTextArea | CO4 | L2 | | 5M | |

****