**Hall Ticket Number: 18CSI01**

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| **IV/IV B.Tech (Regular) DEGREE EXAMINATION** | | | |
| **December, 2021** | **Institutional elective** | | |
| **Seventh Semester** | **JAVA Programming** | | |
| **Time:** Three Hours | | **Maximum:** 50 Marks | |
| *Answer Question No.1 compulsorily.* | | | (10X1 = 10 Marks) |
| *Answer ONE question from each unit.* | | | (4X10=40 Marks) |

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| 1. | a) | Define class | CO1 |  |
|  | b) | Define method in JAVA | CO1 |  |
|  | c) | What is meant by command line argument, | CO1 |  |
|  | d) | List different types of access specifiers in JAVA. | CO2 |  |
|  | e) | Difference between String and StringBuffer classes. | CO2 |  |
|  | f) | What is overloading? | CO2 |  |
|  | g) | Which one is the super class in JAVA for exceptions? | CO3 |  |
|  | h) | Write the difference between character stream and byte stream. | CO3 |  |
|  | i) | Write the use of Graphics class. | CO4 |  |
|  | j) | List any two AWT controls. | CO4 |  |
| **Unit –I** | | | | |
| 2. | A | Outline and explain briefly the features of JAVA. Also write the reasons for JAVA becomes so popular. Explain the need of JVM. | CO1 | 10M |
| **(OR)** | | | | |
| 3. | a) | List different types of looping statements used in JAVA programming environment. Illustrate with simple examples. | CO1 | 5M |
|  | b) | Define constructor. Explain different types of constructors with example. | CO1 | 5M |
| **Unit –II** | | | | |
| 4. | a) | With simple examples, illustrate the following concepts with examples.  i. Simple inheritance ii. Multilevel Inheritance | CO2 | 5M |
|  | b) | What is need of interface in JAVA. How it is used to achieve multiple inheritance. Explain with simple example. | CO2 | 5M |
| **(OR)** | | | | |
| 5. | a) | Write the use of packages in JAVA. Illustrate the process of creating user defined packages in JAVA with simple example. | CO2 | 5M |
|  | b) | List different types of methods supported by String class in JAVA along with example program. | CO2 | 5M |
| **Unit –III** | | | | |
| 6. | a) | Briefly explain exception handling mechanism in Java with an example program | CO3 | 5M |
|  | b) | Explain how user defined exceptions will be created with an example. | CO3 | 5M |
| **(OR)** | | | | |
| 7. | a) | Write the use of PrintWriter class in JAVA along with simple example. | CO3 | 5M |
|  | b) | Write a JAVA program to copy the content from one file into another file. | CO3 | 5M |
| **Unit –IV** | | | | |
| 8. | a) | Create an Applet by drawing different shapes on GUI. | CO4 | 5M |
|  | b) | Write the difference between AWT and Swings. | CO4 | 5M |
| **(OR)** | | | | |
| 9 |  | Illustrate the following Swing components with example programs:  i. JLabel ii. JButton iii. JTextField iv. JTextArea | CO4 | 10M |

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