**18ECD13**

**Hall Ticket Number:**

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| **III/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION** | | | |
| **January, 2022** | **Electronics and Communication Engineering** | | |
| **Fifth Semester** | **Programming with JAVA** | | |
| **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 Variable | CO1 |  |
|  | b) | What is a Dynamic Initialization? | CO1 |  |
|  | c) | Give the importance of Byte Code in Java. | CO1 |  |
|  | d) | What is the use of THIS Keyword | CO2 |  |
|  | e) | Give the advantage of static keyword | CO2 |  |
|  | f) | List the different access controls in Java. | CO2 |  |
|  | g) | Define abstract class. | CO3 |  |
|  | h) | Give the syntax for importing the package. | CO3 |  |
|  | i) | What is the functioning of try block. | CO4 |  |
|  | j) | What is the advantage of multi threading. | CO4 |  |
| **Unit -I** | | | | |
| 2. | a) | Describe the operators in java with example programs. | CO1 | 5M |
|  | b) | Explain the concept of decision making statements with examples. | CO1 | 5M |
| **(OR)** | | | | |
| 3. | a) | Write a short notes on OOPs Principles. | CO1 | 5M |
|  | b) | Explain about Java Buzz words. | CO1 | 5M |
| **Unit -II** | | | | |
| 4. | a) | Describe the concept of constructors with example programs | CO2 | 10M |
| **(OR)** | | | | |
| 5. | a) | Write a java program to pass the parameters by using call by value mechanism. | CO2 | 5M |
|  | b) | Write a short note on classes and objects. | CO2 | 5M |
| **Unit -III** | | | | |
| 6. | a) | Explain the use of super keyword in inheritance with example. | CO3 | 5M |
|  | b) | Illustrate the use of final keyword in inheritance with example program. | CO3 | 5M |
| **(OR)** | | | | |
| 7. | a) | Illustrate the need of interface in multiple inheritance with example program. | CO3 | 5M |
|  | b) | Describe the process the creating and importing user defined packages in Java with example programs. | CO3 | 5M |
| **Unit -IV** | | | | |
| 8. | a) | Briefly explain exception handling mechanism in java with an example program. | CO4 | 5M |
|  | b) | List the differences between process and thread. | CO4 | 5M |
| **(OR)** | | | | |
| 9. | a) | With neat diagram explain the life cycle of a thread and give the thread priorities. | CO4 | 5M |
|  | b) | Describe the concept of synchronization in mutit threading. | CO4 | 5M |

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