

III B. Tech II Semester Regular Examinations, April/May - 2019

OOPS THROUGH JAVA

(Electrical and Electronics Engineering)

Time: 3 hours

Max. Marks: 70

 Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answer **ALL** the question in **Part-A**3. Answer any **FOUR** Questions from **Part-B**

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**PART -A**

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|-------|---------------------------------------------|------|
| 1. a) | Explain the principles of OOP.              | [2M] |
| b)    | Describe role of 'this' keyword.            | [2M] |
| c)    | Differentiate abstract class and interface. | [2M] |
| d)    | Define synchronization.                     | [3M] |
| e)    | What is inner class in Java programming?    | [3M] |
| f)    | Define GridLayout.                          | [2M] |

**PART -B**

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|-------|-------------------------------------------------------------------------------------------------------------|------|
| 2. a) | Define operator? Explain different operators in java.                                                       | [7M] |
| b)    | Explain features of java.                                                                                   | [7M] |
| 3. a) | Define abstraction and encapsulation? Explain how class achieves abstraction with an example?               | [7M] |
| b)    | What is command line argument? How command line arguments are represented in java? Explain with an example. | [7M] |
| 4. a) | Define inheritance? Explain various forms of inheritance.                                                   | [7M] |
| b)    | Explain importance of 'super' keyword with a sample Java program.                                           | [7M] |
| 5. a) | Explain the necessity of thread synchronization with a sample Java program.                                 | [7M] |
| b)    | Write a Java program to display the contents of a text file.                                                | [7M] |
| 6. a) | What is an Applet in Java programming? Explain the procedure to execute an Applet.                          | [5M] |
| b)    | Explain the life cycle of an Applet.                                                                        | [4M] |
| c)    | Explain the Event delegation model and also list out various sources of Events.                             | [5M] |
| 7. a) | Explain Constructors and methods of Button class in Java.                                                   | [6M] |
| b)    | Write a short note on:<br>(i) Layout managers    (ii) JTree                                                 | [8M] |

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