

Code No: E-5651/N/BL/AICTE

**FACULTY OF ENGINEERING**  
B.E. (CSE) III-Semester (AICTE) (Backlog) (New) Examinations, September / October 2023

Subject: OOPS Using JAVA

Max. Marks: 70

Time: 3 Hours

- Note: (i) First question is compulsory and answer any four questions from the remaining six questions. Each questions carries 14 Marks.  
(ii) Answer to each question must be written at one place only and in the same order as they occur in the question paper.  
(iii) Missing data, if any, may be suitably assumed.

1. (a) What are the life-cycle methods for a servlet?  
(b) Define Method overriding with example.  
(c) Define Static() and super() methods.  
(d) What are the Exceptions? List out any three runtime exceptions.  
(e) Explain the life cycle of a thread.  
(f) Write a program to implement Array List class.  
(g) Explain the filter Streams and Buffered Streams.
2. (a) How do we implement polymorphism in JAVA? Explain briefly.  
(b) Explain the different iterators used for accessing the elements with example.
3. (a) Discuss briefly about java I/O classes.  
(b) Discuss about abstract classes and methods with relevant example, how is it different from interface.
4. (a) Illustrate about Delegation Event model.  
(b) Explain the control statements used in JAVA.
5. (a) Illustrate the use of Grid Bag layout.  
(b) Explain the steps involved in creation and handling of menus.
6. (a) What is an array? How do you declare the array in java? Give examples.  
(b) Describe the methods defined by input stream and output stream.
7. (a) What are the subclasses of JButton class of swing package?  
(b) Explain the steps involved in creation and handling of menus.

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