



Progressive Education Society's
Modern College of Arts, Science & Commerce Ganeshkhind, Pune – 16
(Autonomous)
End Semester Examination: MAR / APR 2025
Faculty: Science and Technology

Program: BSc(Comp05)
Program (Specific): BSc(Computer Science)
Class: T.Y.BSc(Computer Science)
Name of the Course: Advanced Java
Course Code: 24-CS-365
Paper: II

Semester: VI

SET: A
Course Type: DSEC - III
Max.Marks: 35
Time: 2Hr

Instructions to the candidate:

- 1) *There are 5 sections in the question paper. Write each section on separate page.*
- 2) *All Sections are compulsory.*
- 3) *Figures to the right indicate full marks.*
- 4) *Draw a well labelled diagram wherever necessary.*

Q1) Solve the Multiple Choice Questions.

[5x1=5]

- a) Which of this interface must contain a unique element?
 - (i) Set
 - (ii) List
 - (iii) Array
 - (iv) Collection
- b) Inter-thread communication consists of following which methods,
 - (i) wait()
 - (ii) notify()
 - (iii) notifyAll()
 - (iv) All of the mentioned
- c) Which interface represents the result set of a database query?
 - (i) ResultObject
 - (ii) ResultQuery
 - (iii) ResultSet
 - (iv) All of the mentioned
- d) Features of Servlet include,
 - (i) Efficient and Scalable
 - (ii) Portable and Robust
 - (iii) Powerful and flexible
 - (iv) All of the mentioned
- e) AOP stands for _____.
 - (i) Aspect Oriented Programming
 - (ii) Aspect Originated Programming
 - (iii) Aspect Oriented Paging
 - (iv) None of the mentioned

Q2) Answer ANY FOUR of the following.

[4x1=4]

- a) Define map interface.
- b) State the use of wait ().
- c) Describe the use of get connection ().
- d) State the purpose of JSP directives.
- e) Define spring framework.
- f) Give the name of JDBC API.

Q3) Answer ANY FOUR of the following.

[4x2=8]

- a) How to create thread?
- b) List JDBC driver.
- c) Differentiate between set & list interface.
- d) Which JSP tag is used to give declaration?.
- e) What are the applications of spring?
- f) Define Servlet? State its advantages.

Q4) Answer ANY FOUR of the following.

[4x2=8]

- a) Write a JDBC program to accept details of Book (B_id, B_name, B_cost) from user & display it.
- b) List modules in Spring.
- c) Write a Java program in multithreading to display all the alphabets between 'A' to 'Z'. Each alphabet should display after two seconds.
- d) Compare statement & prepared statement interface.
- e) Write a servlet program to count the number of times a servlet has been invoked [use cookies].
- f) Write a note on TreeMap class.

Q5) Answer ANY TWO of the following.

[2x5=10]

- a) Discuss JDBC Architecture.
- b) Write a java program to accept 'n' numbers from user, store them into LinkedList collection. Display only odd numbers.
- c) Explain the servlet Life Cycle.
- d) Compare and contrast doGET() and doPOST() methods in Java.
