



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

Program: BBA(Computer Application) Semester: VI
Program (Specific): BBACA07
Class: TYBBACA
Name of the Course: Advanced Java
Course Code: 24-BBACA363
Paper: -

SET: A
Course Type: CCT-3
Max. Marks: 70
Time: 3Hr

Instructions to the candidate:

- 1) *There are 4 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) Answer the following (MCQ)

[10 x 1 =10 marks]

- 1) JDBC stand for ----- .
a) Java Data Binding Connection b) Java Database Connectivity
c) Java Data Communication d) Java Data Control
- 2) What is the default priority of a thread in Java?
a) 0 b) 1 c) 5 d) 10
- 3) Which method in a servlet is used to handle GET requests?
a) doPost() b) doGet() c) service() d) getRequest()
- 4) Which method is used to insert Java code into a JSP page?
a) <%! ... %> b) <%= ... %> c) <%... %> d) <%script ... %>
- 5) Which of the following is NOT a networking protocol?
a) HTTP b) FTP c) Java d) SMTP
- 6) What is the default scope of a Spring Bean?
a) Prototype b) Request c) Singleton d) Session
- 7) What file format is commonly used for Hibernate configuration?
a) .xml b) .json c) .txt d) .yaml
- 8) Which of these packages contains classes and interfaces for networking ?
a) Java.io b) java.util c) java.net d) java.network
- 9) Which class is responsible for loading the JDBC driver?
a) ConnectionManager b) Statement
c) DriverManager d) ResultSet
- 10) Which Java keyword is used to prevent race conditions?
a) sync b) lock c) synchronized d) mutex

Q.2] Answer the Following. (Any 10)

[10x2 =20 marks]

- 1) Differentiate between the sleep() and interrupt() methods in Java.
- 2) List the two ways to create a thread in Java.
- 3) Describe the use of the getLocalHost() method in Java networking.
- 4) Explain the role of JDBC in database connectivity.
- 5) Define a servlet in Java.
- 6) What is a socket in networking?
- 7) What is the role of IoC (Inversion of Control) in Spring?
- 8) State the purpose of the ResultSet interface in JDBC.
- 9) Write a value of Max_priority in Multithreading.
- 10) Describe JSP Expression and their syntax.
- 11) Explain how the Thread.currentThread().getName() method works.
- 12) Describe the use of the getConnection() method in JDBC.

Q3) Answer the following. (Any 4)

[5x4=20 marks]

- 1) Describe the architecture of JDBC in brief.
- 2) Explain the process of extending the Thread class.
- 3) Write Short note on: the servlet hierarchy.
- 4) Summarize the life cycle of a Spring framework.
- 5) Categorize different JSP tags and their uses.
- 6) Analyze network sockets and their role in network communication.

Q4) Answer the Following (Any 4).

[5x4=20 marks]

- 1) Write a program to create a JDBC connection.
- 2) Write a note on Runnable interface in Java.
- 3) Explain Servlet life cycle.
- 4) Illustrate difference between doGet() and doPost().
- 5) Write a multithreading Java program to display all alphabets from A to Z after every 3 seconds.