

PURBANCHAL UNIVERSITY

2024

Bachelor in Information Technology (B.I.T.)/Fourth Semester/Final

Time: 03:00 hrs.

Full Marks: 80/Pass Marks: 32

BIT255CO: Programming in Java (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A

Answer TWO questions.

$2 \times 12 = 24$

1. What is distributed application? Explain RMI with the help of example.
2. What are swing components? Write a Swing program to create User Registration form as shown below and also display the information input by the user on appropriate components when the user clicks "Register" button. [2+10]

New User Register	
First name	<input type="text"/>
Last name	<input type="text"/>
Email address	<input type="text"/>
Username	<input type="text"/>
Password	<input type="text"/>
Mobile number	<input type="text"/>
Register	

3. Explain in TCP with a neat diagram. Write a complete client-server program that represents the connection to server and sends some text to the server and also receives some message from server. [4+8]

Group B

Answer SEVEN questions.

$7 \times 8 = 56$

4. What is OOP? Explain its importance. Also explain the features of Java. [1+2+5]
5. What is thread? Write a program to demonstrate multi-threading program inheriting Thread class. [2+6]

Contd. ...

(2)

6. Differentiate between abstract class and interface. Explain tree and set interface with appropriate example. [3+5]
7. Differentiate between byte and character stream. Write a program to perform read and write operation using FileOutputStream and FileInputStream. [3+5]
8. What is JDBC driver? Write a program for Java database connectivity and also insert data in database. [2+6]
9. What is exception handling? Explain try, catch and throw with the help of example. [2+6]
10. What do you mean by static and dynamic web page? Explain JSP and Servlet with example. [2+6]
11. Write short note on any TWO: 2×4=8
 - (a) Applet
 - (b) String and StringBuffer
 - (c) Constructor

