TILAK MAHARASHTRA VIDYAPEETH, PUNE

MASTER OF COMPUTER APPLICATIONS

EXAMINATION : DECEMBER - 2023

SEMESTER - III

Sub:Web Applications using Java (MCA-303-22)

Date :14/12/2023 Total Marks : 60 Time: 10.00 am To 12.30 pm

Instruction:

- 1. All questions are compulsory unless and otherwise stated.
- 2. Bold figures to the right of every question are the maximum marks for that question.
- 3. Candidates are advised to attempt questions in order.
- 4. Answers written illegibly are likely to be marked zero.
- 5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
- 6. Draw neat and labelled diagram wherever necessary.

Q.1. Answer the following in 2-3lines. (Any 5)

(10)

- 1. What are the datatypes supported by java?
- 2. Write in details about comments in java.
- 3. Explain what is the use of execute Query().
- 4. Explain Logical operators supported by Java.
- 5. Explain break statement.
- 6. Explain what is the use of this keyword.
- 7. What is API?

Q.2. Answer the following in short. (Any 4)

(20)

- 1. What is package? Explain in details with its types.
- 2. Write a short note on Constructors. Explain its types.
- 3. Explain conditional/Decision Making statements in details.
- 4. Distinguish between Abstract class and interface.
- 5. Explain arrays and its types in details with example.
- 6. Write a program to accept number from the user and display factorial of it.

Q. 3. Answer the following in detail. (Any 3)

(30)

- 1. Write in detail features of java.
- 2. Write a short note on servlet lifecycle. Explain types of it.
- 3. Explain JDBC Architecture in detail.
- 4. Write a JSP program to create a employee registration form to collect information (employee id, name, email id, gender, designation, username, and password) and display the values entered by the user in another page.
- 5. Explain following string methods in details
 - 1) toLowerCase() 4) concat()
- 7) charAt()
- 10) replace()

- 2) equals()
- 5) isEmpty()
- 8) indexOf()
 9) contains()

- 3) length()
- 6) to Upper Case()
