TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)
EXAMINATION : DECEMBER- 2022
SEMESTER - VI
Sub:Adv. Java (BCA –641-18)

Date : 16/12/2022   **Total Marks : 60**   **Time: 2.00 pm to 04.30 pm**

Instructions:
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 diagrams wherever necessary.*

Q.1. **Fill in the blanks.**   **(05)**

1. The total JDBC product components in Java software provides is _____
    a) 2   b) 3
    c) 4   d) 5

2. Total JDBC drivers available is _____
    a) 2   b) 3
    c) 4   d) 5

3. Where can BLOB, CLOB, ARRAY, and REF type columns be updated?
    a) JDBC 1.0   b) JDBC 2.0
    c) JDBC 3.0   d) JDBC 4.0

4. TCP, FTP, SMTP, Telnet are examples of?
    a) IP address   b) Protocol
    c) Socket   d) MAC Address

5. Total TCP/IP ports reserved for specific protocol is._____
    a)1024*   b) 2048
    c) 8888   d) 8088

Q.2. **State True/False.**   **(05)**

1. AWT It is a collection of classes and interfaces

2. A JSP page consists of XHTML tags and JSP tags.

3.   Java is divided in Core Java(J3SE) Advanced Java(JEE)

4. Servlet is not capable of handling Complex requests obtained from a web server

5. There are 16 number of bits in a single IP address

Q.3. **Answer the following. (Solve any 5)**   **(10)**

1. What is MVC architecture

2. What is Frames?

3. What is ODBC?

---

4. What is ports?

5. What is BDK?

6. What is Java Web Server

Q. 4.   Answer the following in detail. (Solve any 6)   **(30)**

1. Explain JDBC in detail

2. What is Java Beans? Write in detail

3. What is JPanel? Write in detail

4. Explain Socket in detail

5. Write a example (code) for JFrame

6. Write in detail about COBRA architecture.

7. Write in detail about JButton.

Q. 5.   Answer the following in detail. (Solve any 1)   **(10)**

1. Write in detail about JSP

2. Explain RMI Architecture

_____