

Total No. of Questions : 5]

SEAT No. :

PB-1478

[Total No. of Pages : 2

[6226]-603

T.Y. B.B.A.(C.A.)

CA - 603: ADVANCED JAVA

(Semester-VI) (2019 Pattern) (CBCS)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

**Q1) Attempt any Eight of the following :**

**[8 × 2 = 16]**

- a) What is servlet?
- b) What is protocol?
- c) What is socket?
- d) What is TCP/IP?
- e) What is the sleep ( ) method?
- f) List types of Result Set.
- g) List any 4 implicit objects of JSP.
- h) What is Hibernate?
- i) What is port?
- j) What is session?

**Q2) Attempt any FOUR of the following :**

**[4 × 4 = 16]**

- a) Explain JSP Life Cycle with diagram.
- b) List & explain JDBC drivers.
- c) Differentiate between doGet ( ) and doPost ( ) methods
- d) Write a Java program to display odd numbers, between 1 to 100 in each number should display after 2 seconds (multithreading)
- e) Write a servlet application to display hello Java message on the browser.

**P.T.O.**

**Q3) Attempt any FOUR of the following :**

**[4 × 4 = 16]**

- a) Explain thread synchronization with example.
- b) What is cookies? Explain use of cookies in session tracking with example.
- c) Explain JSP directives in detail.
- d) Write a JSP script to display factorial of a given number.
- e) Write a Java program to display date of server machine on client's machine.

**Q4) Attempt any FOUR of the following :**

**[4 × 4 = 16]**

- a) Explain statement interface in detail along with prepared statement and callable statement.
- b) Explain any 4 methods used in thread life cycle
- c) Write a JDBC program to insert record into student table. (Assume student table is already created having columns rno, name, percentage)
- d) Write a java program using multithreading to print "Hello Java" message for 500 times.
- e) Explain socket of Server Socket class in detail.

**Q5) Write a short note on any two of the following:**

**[2 × 3 = 6]**

- a) Hibernate
- b) Connection interface
- c) Thread Priorities

