Total No. of Questions : 5]

SEAT No. :

PE-1523

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T.Y. B.Sc.
COMPUTER SCIENCE
CS-365 : Object Oriented Programming Using java - II
(Rev.2019) (Semester - VI) (CBCS) (Paper - V)

Time : 2 Hours] *[Max. Marks : 35*

Instructions to the candidates:

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

Q1) **Attempt any Eight of the following (Out of Ten) :** **[8 × 1 = 8]**

a) Define Collection interface.

b) What are the methods of interThread Communication?

c) What is use of set Auto Commit()?

d) What are types of servlet?

e) List implicit objects in JSP.

f) List JDBC drivers.

g) Give the name of JDBC Components.

h) Define List Iterator Interface.

i) What is HashSet?

j) List Session tracking mechanisms in servlets.

Q2) **Attempt any Four of the following (Out of Five) :** **[4 × 2 = 8]**

a) What are the ways to create thread?

b) Write differences between Statement and Prepared Statement interface.

c) Difference between List and Set interface.

d) Write any two JSP Scripting elements with proper syntax and uses.

e) What are the advantages of spring?

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Q3) **Attempt any Two of the following (Out of Three) :** **[2 × 4 = 8]**

a) Write JDBC program to accept department name and display details of employee (eId, eName, eDesignation, eSalary) having maximum salary.

b) Write a java program in multithreading to display all the alphabets between 'A' to 'Z'. Each alphabet should display after four seconds.

c) Write a JSP script to display factorial of given number and display the result in red colour.

Q4) **Attempt any Two of the following (Out of Three) :** **[2 × 4 = 8]**

a) Write a servlet program to count the number of times a servlet has been invoked [use cookies].

b) Explain life cycle of thread.

c) Explain spring framework architecture with suitable diagram

Q5) **Attempt any One of the following (Out of Two) :** **[1 × 3 = 3]**

a) Explain JDBC architecture with suitable diagram.

b) Write a java program to display names of friends in alphabetical order using suitable collection.

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