

Seat No: _____



No. of Printed Pages: 02

[25]

SARDAR PATEL UNIVERSITY

Bachelor of Computer Application (Semester 5) Examination-2022

(US05CBCA25) Object Oriented Programming - III

Date: 12/11/2022 (Saturday)

Total: 70 Marks

Time: 10:00AM to 01:00PM

Note: Figure to the right indicate full marks of the questions.

Q.1 Multiple Choice Questions

[10]

1. which is true for converting primitive to wrapper? `int a=20;`
(A) `int i=Integer.valueOf(a);` (B) `Integer i=Integer.valueOf(a);`
(C) `Integer i=int.valueOf(a);` (D) `int i=int.valueOf(a);`
2. The automatic conversion from wrapper type to its corresponding primitive type is known as _____.
(A) unboxing (B) Autoboxing (C) Both (D) None
3. _____ is use for implements a synchronized dynamic array that means it can grow or shrink as required.
(A) array (B) arraylist (C) vector (D) ALL
4. The life cycle of a servlet is managed by
(A) servlet context (B) servlet container (C) the supporting protocol (D) all
5. What is `javax.servlet.Servlet`?
(A) interface (B) abstract class (C) concrete class (D) None
6. Which of the following code can be used to clear any data that exists in the buffer as well as the status code and headers?
(A) `request.reset()` (B) `response.reset()` (C) `response.resetBuffer()`
(D) None
7. Which tag should be used to pass information from JSP to included JSP?
(A) Using `<%jsp:page>` tag (B) Using `<%jsp:param>` tag
(C) Using `<%jsp:import>` tag (D) Using `<%jsp:useBean>` tag
8. "request" is instance of which one of the following classes?
(A) Request (B) HttpRequest (C) HttpServletRequest (D) ServletRequest
9. Which method restart the thread?
(A) `start()`; (B) `restart()`; (C) `restartThread()`; (D) None
10. Which method we implement from runnable interface?
(A) `StringBuilder` (B) `StringBuffer` (C) Both (D) None

Q.2 Short Answer Question (Attempt any 10 out of 12)

[20]

1. Write a syntax or example for open a connection.
2. Differentiate `executeQuery()` and `executeUpdate()`.
3. What is `ResultSet`? List out types of `ResultSet`.
4. Draw the Web Based Architecture.
5. Explain `init()` method in brief. (servlet)
6. Explain `service()` method in brief. (servlet)
7. List out the advantages of JSP
8. List the JSP Components

[1]

[P.T.O.]

9. Write a note on JSP Directive.
10. Write down Thread characteristics.
11. Define void wait() and void notify()
12. What is Thread Scheduling?

- Q.3 1. What is Java Database Connectivity? Explain component of JDBC. [05]
2. Explain JDBC architecture in detail [05]

OR

- Q.3 1. What is Iterator interface? Explain way to iterate the elements of the collection in java. [06]
2. Explain Wrapper class? Also discuss the autoboxing and unboxing [04]

- Q.4 1. Explain Servlet Life Cycle in detail. [05]
2. Explain servlet requests and response methods in detail. [05]

OR

- Q.4 1. Explain methods of HTTP response interface in detail. [05]
2. Explain Cookies with Servlet with example. [05]

- Q.5 1. Explain the Life cycle of JSP with one example. [05]
2. Write a note on various attributes of page Directive. [05]

OR

- Q.5 1. Write a difference between Servlet and JSP. [05]
2. Explain the execution process of JSP in detail. [05]

- Q.6 1. Draw Life Cycle of a Thread and explain in detail. [05]
2. Explain Thread creation in Java [05]

OR

- Q.6 1. List Thread methods and explain any five. [05]
2. Explain Thread Synchronization and how to implement synchronization with example [05]

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{2}