

B. Sc. DEGREE END SEMESTER EXAMINATION OCT. 2020: JANUARY 2021**SEMESTER – 5: COMPUTER APPLICATIONS (CORE COURSE)****COURSE: 15U5CRCAP10: JAVA PROGRAMMING AND DYNAMIC WEBPAGE DESIGNING**

(Common for Regular 2018 admission and Improvement 2017/ Supplementary 2017/2016/2015 admissions)

Time: Three Hours

Max. Marks: 75

PART A

Answer all questions. Each question carries 1 mark.

1. How many bytes are allotted to a character variable and why?
2. Which is the member function of a class that is used for initializing variables without explicit call?
3. An abstract class cannot be instantiated. Justify
4. How can we make the processor allocate more time quantum to a specific thread?
5. What is JVM?
6. Give an example for an event source along with an event.
7. What is the parameter of paint() function of an Applet?.
8. What do you understand about a session variable?
9. What is the use of <c:out>
10. What do you understand by a dynamic content in a webpage?

(1 x 10 = 10)

PART B

Answer any Eight, each carries 2 marks

11. Why do we call java as a platform independent programming language?
12. Thread.currentThread() , comment on this function?
13. Distinguish an ArithmeticException and NumberFormatException?
14. Java supports multiple inheritance using interfaces. Justify the statement
15. "sun.jdbc.odbc.JdbcOdbcDriver", Write about this?
16. What is function overriding?
17. Write any two string handling functions with their use?
18. http://localhost:8080/ , Comment on this line
19. List any two XML tags
20. What is the use of ResultSet class?

(2 x 8 = 16)

PART C

Answer any Five, each carries 5 marks

21. Write any five java programming language features.
22. start() method in turn calls run() method. Explain
23. Distinguish a Listener and an Adapter
24. Explain any event handling function with importance of each keyword.

- 25. Distinguish datagram packets and TCP packets.
- 26. Explain a servlet life cycle
- 27. Explain an HTTP servlet (5 x 5 = 25)

PART D

Answer any Two, each carries 12 marks

- 28. Explain different layouts in Java and their usages.
- 29. Explain the different Exception Handling keywords and their usage in Java
- 30. Explain the JSP tags and classes used in SQL connection, demonstrate its usage also.
- 31. Explain Socket and ServerSocket and demonstrate using a simple program (12 x 2 = 24)
