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BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)
EXAMINATION : JUNE - 2022
SEMESTER - VI
Sub : Adv. Java (BCA –641-18)

Date : 28/06/2022

Total Marks : 60

Time: 02.00 pm to 4.30 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. (5)

1. What does the expression `float a = 35 / 0` return?
 - a) 0
 - b) Not a number
 - c) Infinity
 - d) Run time exception
2. Which of the following tool is used to generate API documentation in HTML format from doc comments in source code?
 - a) javap tool
 - b) javaw command
 - c) Javadoc tool
 - d) javah command
3. Which of the following is a valid long literal?
 - a) ABH8097
 - b) L990023
 - c) 904423
 - d) 0xnf029L
4. _____ is used to find and fix bugs in the Java programs.
 - a) JVM
 - b) JRE
 - c) JDK
 - d) JDB
5. Which of the following is a valid declaration of a char?
 - a) `char ch = '\utea';`
 - b) `char ca = 'tea';`
 - c) `char cr = \u0223;`
 - d) `char cc = '\itea';`

Q.2. State True/False. (5)

1. In Java there are four integer types
2. Instance and class variables are not declared inside a class
3. Bitwise operators cannot be applied to float or double
4. A variable is an identifier that denotes storage location
5. Double types do not represent double-precision numbers.

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

1. What are constants?
2. What is bitwise operator?
3. What is JVM?
4. What is JPanel?
5. What is JFrame?
6. What is sockets?

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

1. Write in detail about inheritance in Java.
2. Write in detail about one dimensional array used in Java.
3. Write in detail about Java API packages.
4. Write in detail about applet programming.
5. What is servlet?
6. What is JDBC?
7. Write in Detail About Java History

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

1. What is Java Beans
 2. Write a program for database connectivity using JDBC.
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