DSCE
Dept. of Information Science & Engineering

DAYANANDA SAGAR COLLEGE OF ENGINEERING
(An Autonomous Institute Affiliated to VTU, Belagavi)
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Department of Information Science and Engineering
Internal Assessment Test - 1

Course: INTRODUCTION TO JAVA   **Course Code: 18IS6IEJVA**

Semester:6   **Maximum marks: 50**

Date: 16-06-2021   **Duration: 90 Mins**

Mapping:

MAPPING	Question No.	1	2(a)	b(b)	3	4(a)	4(b)	5	6(a)	6(b)	7
	Course Outcome		2	2	1	1	1	1	2	2	2
	Program Outcome		1,2,3,12	1,2,3,12	1,2,3,12	1,2,3,12	1,2,3,12	1,2,3,12	1,2,3,12	1,2,3,12	1,2,3,12
	Blooms Level		2	2	2	2	2	3	2	2	2

(Question Number 1, 2 and 3 are Compulsory, Answer one full question from 4 or 5 and 6 or 7)   **Marks**

1 A Who invented Java language?   **1x10**
  a) Dennis Ritchie   c)Larry Page
  b) James Gosling   d)Serge Page

B Which of the following option leads to the portability and security of Java?
  a) Bytecode is executed by JVM
  b) The applet makes the Java code secure and portable
  c) Use of exception handling
  d) Dynamic binding between objects

C Which of the following is not a Java features?
  a) Dynamic
  b) Architecture Neutral
  c) Use of pointers
  d) Object-oriented

D Which of these are selection statements in Java?
  a) if()
  b) for()
  c) continue
  d) break

E Which of the following is valid statement?
  a)char[] c=new char();
  b)char[] c=new char[5];
  c)char[] c=new char(4);
  d)char[] c=new char[];

F Bitwise logical operators in Java work with?
  a)   true/false boolean data
  b)   0 and 1 individual bits of data
  c)   Characters of a String
  d)   None of the above

G In Java, the keyword used to declare a class is ___.
  a) Class
  b) Java
  c) class
  d) java

H What is garbage collection in the context of Java?

  a) Java deletes all unused java files on the system.

b) Memory used by the object with no reference is automatically reclaimed.
c) The JVM cleans output of Java program with error.
d) Any unused package in a program automatically gets deleted.

I   Which of these keywords is used to prevent content of a variable from being modified?
a) final   c) constant
b) last   d) static

J   Which of these access specifiers must be used for main() method?
a) private   c) protected
b) public   d) none of the mentioned

2	**A**	Interpret on Java Bytecode.	**03**
	B	Lis and explain any 7 Java Buzzwords	**07**
3		Explain the types of constructors with example for each.	**10**
4	**A**	Interpret on any two access specifiers with example.	**5**
	B	Explain static keyword in java.	**5**

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OR

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5	Develop a Java Program to Create a class named 'Student' with String variable 'name' and integer variables 'roll_no' & 'fee' and include a method by name 'display()'.Assign the necessary values for the variables using *this keyword* and display them by invoking method.	**10**
6 A	Explain the following with example (i) The Unsigned Right Shift (>>>) operator (ii) Break statement	**05**
B	Explain method overloading with an example.	**05**

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OR

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7	Explain type casting and type promotion rules with an example program.	**10**