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SARDAR PATEL UNIVERSITY
External Examination (CBCS)
B. Sc. – Computer Science
6th - Semester (CBCS)
US06CCSC21: Object Oriented Programming using JAVA
15th July, Thursday, 2021
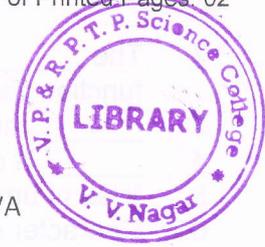
Time: 10.00am to 12.00pm

Total Marks: 70

Q-1   Select an appropriate option.   10

1.   Java is developed by _____.
     (a) Sun Microsystems of USA   (b) Microsoft
     (c) Adobe   (d) None of these

2.   _____ is one of the java feature that enables java program to run anywhere anytime.
     (a) Object-Oriented   (b) Multithreaded
     (c) Platform-Independent   (d) Dynamic & Extensible

3.   Java interpreter translates _____ into machine code.
     (a) Bitcode   (b) Bytecode(Virtual Machine Code)
     (c) Machine Code   (d) User code

4.   _____ variables and methods can be called without using the objects.
     (a) Static   (b) Final   (c) Abstract   (d) None of these

5.   What keyword is used in Java to define a constant?
     (a) Static   (b) Final   (c) Abstract   (d) Private

6.   _____ is a special method in java that enables an object to initialize itself when it is created.
     (a) Constructor   (b) Destructor   (c) Static   (d) Final

7.   All syntax errors are known as _____.
     (a) Run-time   (b) Exception   (c) Logical   (d) Compile-time

8.   Which package is used for creating and implementing applets?
     (a) java.lang   (b) java.util   (c) java.applet   (d) java.awt

9.   _____ is valid parameter to set the background color as red.
     (a) setColor(RED)   (b) Color = RED
     (c) Color.RED   (d) new Color(RED)

10. Through the applet life cycle _____ state occur only once.
     (a) Running   (b) Idle   (c) Born   (d) None of these

Q-2   Fill in the blanks. / State TRUE or FALSE   08

1.   ___is one of the java features that can handle multiple tasks simultaneously.

(P.T.O.)

2. The _____ includes hundreds of classes and methods grouped into several function packages.
3. _____ methods must be override in the subclass.
4. _____ is default access specifier in JAVA.
5. "Use of undeclared variables" is the compile-time type of error. (True / False)
6. Character streams can be used to read and write 8-bit Unicode characters. (True / False)
7. The code parameter is used to specify the applet class name. (True / False)
8. TextArea is a multi-line edit control. (True / False)

Q-3 Answer the following questions. (Attempt any **TEN**)   20

1. What is JVM?
2. Draw the java program structure.
3. List out the types of operators used in Java.
4. Define fields and methods of a class in Java.
5. Define static keyword.
6. Differentiate between Classes and Interface.
7. List out the different types of exception.
8. Explain any two string methods.
9. Give examples of the Run-time error.
10. List out methods of MouseListener.
11. Define: (i) Event (ii) Event Source
12. Explain method setBackground().
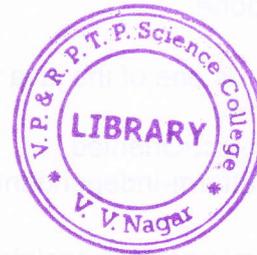
Q-4 Long Answer questions. (Attempt any **FOUR**)   32

1. What is java? Explain the features of java.
2. List and explain the looping statements available in java.
3. Define inheritance. Describe different forms of inheritance.
4. Write short note on method overloading and method overriding.
5. Explain Arithmetic Exception with an example.
6. Describe the try and catch statements in detail.
7. Explain Applet life cycle in detail.
8. Write short note: (i) Label (ii) TextField (iii) Button

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