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SARDAR PATEL UNIVERSITY
T.Y.B.Sc : SEMESTER – VI
BIO INFORMATICS

US06CBNF02: Object Oriented Programming using Java

Date: 27-03-2019, Wednesday Time: 10:00pm to 01:00pm Max. Marks: 70

Q.1 Multiple choice of Question:

10

- [1] Java compiler produces an intermediate code known as _____.
(a) Bit code (b) Byte code (c) Machine code (d) User code
- [2] _____ tool helps us to find errors in our programs.
(a) javap (b) javah (c) jhelp (d) jdb
- [3] _____ defines only abstract methods and final fields.
(a) Interface (b) Final class (c) Abstract class (d) Class
- [4] Which of the following statements is true?
(a) Java supports operator overloading
(b) Java supports interfaces
(c) Java supports pointers
(d) Java supports multiple inheritance
- [5] _____ methods must be override in the subclass.
(a) public (b) final
(c) abstract (d) static
- [6] _____ is caused when a conversion between string and number fails.
(a) NullPointerException (b) NumberFormatException
(c) IOException (d) SecurityException
- [7] "Use of undeclared variable" is the _____ type of error.
(a) Run-time (b) Exception (c) Logical (d) Compile-time
- [8] In the following JDBC drivers which is known as partially java driver?
(a) JDBC-ODBC bridge driver (b) Native-API driver
(c) Network Protocol driver (d) Thin driver
- [9] _____ is a passive control.
(a) Button (b) Label (c) TextField (d) None
- [10] _____ is a single line edit control.
(a) Label (b) TextField (c) Button (d) TextArea

Q.2 Answer the following questions in short (Any 10) :

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- [1] List out the types of operators used in java.
- [2] What is the meaning of automatic type conversion?
- [3] List the primitive and non-primitive data types used in java.
- [4] What are the conditions for using super() method.
- [5] Define Inheritance. How it is created in Java?
- [6] Define the final variable and final methods.
- [7] Define the term – Exception and Exception Handling.
- [8] Give examples of the Run-time error.
- [9] Define the term "Stream".
- [10] Draw the figure of Thin driver.
- [11] What is event delegation?
- [12] Draw figure of JDBC-ODBC Bridge Driver.

- Q.3 [A] Explain the scope of variable. 5
 [B] Explain data types available in JAVA. 5
- OR
- Q.3 [C] Explain FOR statement with example available in Java. 5
 [D] Explain the structure of JAVA program. 5
- Q.4 [A] What is a constructor? What are its special properties? 5
 [B] Define class. How do classes help us to organize our programs? 5
 What are the three parts of a simple, empty class?
- OR
- Q.4 [C] Explain declaration of method or class abstract with example. 5
 [D] Describe different forms of inheritance. 5
- Q.5 [A] Explain the try and catch statements in detail. 5
 [B] Explain Reader Stream Classes and Writer Stream Classes. 5
- OR
- Q.5 [C] Explain Arithmetic Exception with an example. 5
 [D] Explain any five Methods of String Class with example. 5
- Q.6 [A] Explain Applet life cycle in detail. 5
 [B] Write short note on components : Label , List 5
- OR
- Q.6 Explain how to retrieve, insert, update and delete data through Java. 10

