B. Sc. (Bioinformatics) (Sem. IV) (CBCS) Examination

April / May - 2017

405 B : Object Oriented Programming using Java

(New Course)

Faculty Code : 003

Subject Code : 006405

Time : $2\frac{1}{2}$ Hours]   [Total Marks : 70

Instructions : (1)   All questions are compulsory.

(2)   The right side figure indicates total marks of the question.

1   Answer the short answers questions :   **20**

(1)   Java language was developed by _____

(2)   What is JIT?

(3)   _____ has no return type, not even void.

(4)   To inherit one class to another class _____ keyword is used,

(5)   Which method is used to draw a circle in applet?

(6)   When a class declared as a final, then _____.

(7)   API stands for _____

(8)   Interface extends another interface in Java. True or False?

(9)   Which package and class is need to be import to get values form the users in Java?

(10)   In java a thread can be created by _____

(11)   Which method is first called by an applet?

(12)   Which keyword is used to call constructor of parent class in inheritance?

(13)   In applet programming, which method requires a parameter that is an instance of Graphics class.

(14)   Which CheckBox method is allows you to tell if a checkbox is checked?

(15) _____ is a set of classes that provides more powerful and flexible components?

(16) When a method has same name and same type signature as a method in super class, then this method is said to be _____

(17) BufferedReader class belongs to _____ package

(18) _____ members of class are accessible from within the class only

(19) Java does not support _____ inheritance

(20) _____ is sequence of data items flowing from source to destination.

2 (A) Answer the following Questions : (any **three**)   6
    (1) Differentiate OOP Vs POP,
    (2) Draw the structure of JAVA program.
    (3) List out data types available in JAVA and explain in brief.
    (4) Define import statement,
    (5) Define exceptions.
    (6) Define super keyword with example,

(B) Answer the following Questions : (any **two**)   9
    (1) Explain java features.
    (2) What is constructor? Explain constructor overloading with example.
    (3) Explain components of JDK.
    (4) Differentiate print( ) and println( ) method with suitable example,
    (5) Explain wrapper class with suitable example.
    (6) Write a program to implement single level inheritance in Java.

(C) Answer the following questions : (any **two**)   10
    (1) What is interface? Explain role of interface in JAVA with example.
    (2) Explain any four methods of String class with example.
    (3) Explain method overloading and overriding with example,
    (4) Write a program to find the factorial of given input number in JAVA.
    (5) What is thread? Explain multi-threading in JAVA with example.

3 (A) Answer the following Questions : (any **three**)   **6**
  (1) Define try and catch statements.
  (2) Differentiate Applet Vs Swing.
  (3) Explain final keyword.
  (4) Differentiate private Vs public access specifier.
  (5) What is stream in java?
  (6) Explain any two Math class methods.

  (B) Answer the following Questions : (any **three**)   **9**
  (1) Explain any three built-in exception classes with example.
  (2) Explain life-cycle of thread with appropriate diagram.
  (3) Explain Byte Stream classes with suitable example.
  (4) Differentiate AWT Vs Swing
  (5) What is package? How to create a package in Java? Explain with example.
  (6) Write a program in java that reads rollno, name and fees of 5 students and print total fees.

  (C) Answer the following Questions: (any **two**)   **10**
  (1) What is applet? Explain life-cycle of applet.
  (2) Explain graphics class methods with syntax and example.
  (3) Write a java program that demonstrates login application using swing.
  (4) What is event handling in Applet? Explain with suitable example.
  (5) Write a program to create two threads, one is used to print even numbers and second is used to print odd numbers between 1 to 100.

_____