

B.C.A. (Part-III) Examination, 2017

[Time: Three Hours] [Maximum Marks: 100]

Part – I

1. a) Why is Java Architectural Neutral?
- b) What type of variable can be used in a switch statement?
- c) Why Packages are used?
- d) Which are the two subclasses under Exception class?
- e) What is the difference between a Window and a Frame?
- f) What is Swing?
- g) What is the difference between application and applets?
- h) What is Runnable in Java?
- i) What is a Socket?
- j) Which class is used by a server application to obtain a port and listen for client request?

Part – II

2. a) Is Java a pure object oriented language? If not why?
- b) What is the difference between throw and throws?
- c) What is the difference between Swing and AWT components?
- d) What is the order of method invocation in an Applet?
- e) What does JDBC do?

Part – III

3. What are the most important features of Object Oriented Programming languages? Differentiate between class and instance variables.

OR

What the differences are between structured and object oriented programming? Explain the features of JAVA.

4. What do you mean by String handling? Explain various methods of string handling.

OR

What is Inheritance? Explain its different types. Write a java program to implement multiple inheritances.

5. What is AWT? Explain AWT package in Brief.

OR

What are the different types of layout managers? Explain.

6. Explain how to set font of an applet using Font class. Give suitable code segment to demonstrate.

OR

What is multithreaded programming? Explain how threads are created in Java. Explain the need of thread synchronization, with suitable example. <https://www.uoronline.com>

7. Explain Datagram. Explain the classes for implementing it.

OR

What is a TCP/IP socket? Explain basic networking features of java.