V Semester B.C.A. Degree Examination, November/December 2017
(F+R) (CBCS)
(2016 – 17 & Onwards)
BCA 504 : JAVA PROGRAMMING

Time : 3 Hours

Max. Marks : 70

Instruction : *Answer* ***all*** *Sections.*

SECTION – A

I. Answer **any ten** questions : (10×2=20)

1) What is bytecode ? Justify how Java is platform independent.

2) What is default constructor and parameterized constructor ?

3) What is 'labelled break' and 'labelled continue' ?

4) Define a package. Mention its use.

5) Mention the ways of implementing multithreading in Java.

6) Mention any four thread methods.

7) Define an exception. How is exception handling done in Java.

8) Mention any four classes in AWT package.

9) Define a stream in Java. Briefly mention the broad classification of Java stream classes.

10) What is the use of 'super' and 'this' keyword ?

11) Mention the datatypes in Java.

12) Differentiae between 'string' class and ' 'string buffer' class.

SECTION – B

II. Answer **any five** questions : (5×10=50)

13) a) Explain the features of Java. 7

   b) What are static variables and static methods ? 3

14) Explain with an example :

    i) Method overloading. **3**

    ii) Method overriding. **3**

    iii) Abstract method. **2**

    iv) Abstract class. **2**

15) a) Define inheritance. Explain the types of inheritances supported by Java. **7**

    b) Explain any three string methods with examples. **3**

16) a) Differentiate between arrays and vectors. **3**

    b) Explain visibility control in Java. **7**

17) a) What is an interface ? Explain with an example how a class implements an interface. **6**

    b) Explain user defined exceptions in Java. **4**

18) a) Explain the cycle of a thread with a neat diagram. **6**

    b) Explain with an example the implementation of multithreading by extending 'Thread' class. **4**

19) a) Explain life cycle of an applet with a neat diagram. **7**

    b) Explain how parameters are passed to an applet. **3**

20) a) Explain any seven methods of graphics class with an example for each. **7**

    b) Explain the use of FileInputStream class and FileOutputStream class. **3**

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