



SN – 665

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) Differentiate 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

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- 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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