



SN – 479

V Semester B.C.A. Degree Examination, November/December 2013
(Y2K8 Scheme)
COMPUTER SCIENCE
BCA 504 : Java Programming

Time : 3 Hours

Max. Marks : 60/70

- Instructions :** 1) Answer *all* the Sections.
2) Section **D** is applicable for the students who admitted **2011-12** and onwards only.

SECTION – A

Answer **any ten** questions :

(10×1=10)

1. What is byte code ?
2. What is typecasting ?
3. What is the purpose of Wrapper classes ?
4. How are objects created in Java ?
5. What is an abstract class ?
6. What is the finalizer method used for ?
7. How is a string class different from string buffer class ?
8. Name the Java interface that must be implemented by all threads.
9. What is an exception ?
10. What is an Applet ?
11. Name the character stream classes in Java.
12. What is the method used to flush a stream ?

SECTION – B

Answer **any five** questions :

(5×3=15)

13. Explain JVM.
14. Explain Access specifiers.



15. Explain command line arguments.
16. Explain any three methods of string class.
17. How are threads created in Java ?
18. Explain the situations when the keyword “super” can be used.
19. Bring out the differences between class and interface.
20. Explain Event Handling in Java.

SECTION – C

Answer **any five** questions.

(5×7=35)

21. a) Differentiate between while and do.. while loops. **3**
b) Write a Java program to find the sum of digits of a number. **4**
22. Explain Method Overriding with an example.
23. Explain single inheritance in Java with an example program. How is it different form Multi-level inheritance ?
24. Explain life cycle of thread and its various states with a neat diagram.
25. Write a note on Vectors. Mention its advantages over arrays.
26. How are exceptions handled in Java ? Explain with an example.
27. Explain Applet Life Cycle with a transition diagram.
28. Write a note on Graphics class and its methods.

SECTION – D

Answer **any one** questions :

(1×10=10)

29. a) Explain method overloading with an example. **5**
b) Write a Java program to sort a list of numbers in ascending order. **5**
30. a) Write a note on Thread priorities. **5**
b) Explain how packages can be created, accessed and used. **5**