V Semester B.C.A. Degree Examination, November/December 2015
(Y2K8 Scheme) (F+R)
COMPUTER SCIENCE
BCA - 504 : Java Programming
(70 - 2013 - 14 and Onwards) (60 - Prior to 2013 - 14)

Time : 3 Hours
Max. Marks : 60/70

Instructions: 1) Answer all the Sections.
               2) Section - D is applicable to the students who were admitted in 2013 - 14 and Onwards.

SECTION - A

Answer any ten questions: (10x1 = 10)

1. What do you mean by command line argument?

2. What are the two ways of giving values to a variable?

3. Write down the default values of byte and char datatypes.

4. Define a class and write down its syntax.

5. What is the use of 'this' and 'super' keywords?

6. How multiple inheritance is achieved in Java?

7. What is concurrency?

8. What is exception?

9. How user defined exception is done?

10. Write down the applet code for "hello-class" file.

11. Why `repaint()` method is used?

12. Which method is used to draw a circle?
SECTION – B

Answer any five questions:  \((5 \times 3 = 15)\)

13. Explain Java program structure.
14. Write a note on scope of variables.
15. Differentiate between string and string Buffer.
16. What is a vector? Mention its advantages over an array.
17. What is a package? Write down the steps for creating user defined package.
18. How is a string class different from string buffer class? Give two methods of string class.
19. Write down the steps for drawing polygons.
20. Give the classification of input stream classes.

SECTION – C

Answer any five questions:  \((5 \times 7 = 35)\)

21. Explain the features of Java.
22. What is method overriding? Write a program to demonstrate method overriding.
23. Explain any seven string methods with an example.
24. What is thread? Explain thread life cycle with a neat diagram.
25. What is interface? Write a program to demonstrate interface.
26. What do you mean by unchecked exception? Write a program to illustrate try, catch and finally statements.
27. What is applet? Explain applet life cycle with a neat diagram.
28. Write a note on graphic class and its methods.

SECTION – D

Answer any one question:  \((1 \times 10 = 10)\)

29. a) Write a note on inheritance.
   b) Write a program to display all prime numbers between two limits using command line argument.
30. Write a program to implement mouse events.