V Semester B.C.A. Degree Examination, November/December 2018
(Y2K8) (Repeaters)
Computer Science
BCA 504 : JAVA PROGRAMMING

Time : 3 Hours
Max. Marks : 60/70

Instructions: i) Answer all the Sections.
   ii) Section – D is applicable to the students who were
       admitted in 2013-14 and onwards.

SECTION – A

I. Answer any ten questions:
   \((10\times1=10)\)

1) Write any two difference between class and method.
2) Why JAVA is platform independent?
3) What is Unicode?
4) When do we declare a method as final?
5) What are the data types used in JAVA?
6) What is an applet?
7) What is type casting?
8) How array is created in JAVA?
9) What is interface?
10) What is package?
11) What is the use of this keyword?
12) What are the basic types of JAVA streams?

SECTION – B

II. Answer any five questions:
    \((5\times3=15)\)

13) Explain the structure of JAVA program.
14) Explain any four characteristics of JAVA.
15) Explain access specifier in JAVA.

P.T.O.
16) Explain class with an example.
17) Explain try, catch and throw with an example.
18) Write a program to check whether the given number is prime or not.
19) Explain any three types of input-stream class.
20) What is vector? Mention its advantages over array.

SECTION – C

III. Answer any five questions: (5x7=35)

21) a) Explain command line arguments.
   b) How will you compile and execute JAVA program?
22) Explain different methods of string class.
23) Write a program to print multiplication table of a number by accepting the number from user using Keyboard.
24) Explain JVM and its components.
25) Explain constructor overloading with an programming example.
26) Explain life cycle of an applet with an example.
27) What is inheritance? Explain with JAVA program to demonstrate single level inheritance.
28) Explain method overloading and method overriding with suitable example.

SECTION – D

IV. Answer any one question: (1x10=10)

29) Write a program to implement key events.
30) Write a short note on:
   a) Wrapper class.
   b) Graphics class.
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.
    b) What are static variables and static methods?
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
(CBCS) (2016-17 and Onwards)
COMPUTER SCIENCE
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) Why Java is simple ? Mention any two reasons.
   2) What are string literals ?
   3) Give the general form of ‘Switch’ statement.
   4) What is instance variable ? Give an example.
   5) Write a few points about ‘default constructor’.
   6) What does ‘static’ keyword do in a class ?
   7) What is Java API ?
   8) What is Exception handling ?
   9) What is the need for ‘applet viewer’ ?
  10) What is error ? Compare with exception.
  11) What is the purpose of ‘init()’ method in Applet ?
  12) What is the use of canvas in AWT ?

SECTION – B

II. Answer any five questions : (5×10=50)
   13) a) Explain the line “public static void main (string args[])”.
      b) Explain the History and evolution of Java.
   14) a) How to create objects ? What happens when you create objects ?
      b) Demonstrate ‘this’ keyword with Simple Java Program.

P.T.O.
15) a) Differentiate component and container class.  
   b) Give the general form of interface with one example.

16) a) Explain bitwise and logical operators with examples.  
   b) Illustrate array declaration and accessing data elements using an example.

17) a) Differentiate constructors and methods.  
   b) Give the steps to create and use a Java package with an example.

18) a) Explain the life cycle of a Thread.  
   b) Explain the steps of executing an Applet using a simple code.

19) a) Explain try .... catch with an example.  
   b) Write a short note on Graphics Class.

20) a) Write a program to sort a list of elements in ascending order.  
   b) Give the classification on "java.io.IOException". Explain IOException.
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 ?
SECTON – B

Answer any five questions:

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.

SECTON – C

Answer any five questions:

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.

SECTON – D

Answer any one question:

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.