

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCA DEGREE EXAMINATION MAY 2022
(Fourth Semester)

Branch – COMPUTER APPLICATIONS

JAVA PROGRAMMING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- 1 Which of the following is a valid declaration of an object of class Box?
(i) Box obj=new Box(); (ii) Box obj = new Box;
(iii) obj = new Box (); (iv) new Box obj;
- 2 What is the return type of constructors?
(i) int (ii) float
(iii) void (iv) none of the mentioned
- 3 Using which of the following, multiple inheritance in Java can be implemented?
(i) Interfaces (ii) Multithreading
(iii) Protected methods (iv) Private methods
- 4 Which of these access specifier can be used for a class so that its members can be accessed by a different class in the different package?
(i) Public (ii) Protected
(iii) Private (iv) No Modifier
- 5 Which of these method of class String is used to extract a single character from a String object?
(i) CHART() (ii) Chatat()
(iii) charAt() (iv) ChatAt()
- 6 Thread priority in Java is -----
(i) Integer (ii) Float
(iii) double (iv) long
- 7 Which of these functions is called to display the output of an applet?
(i) display() (ii) paint()
(iii) display Applet() (iv) PrintApplet()
- 8 Which of these is a type of stream in Java?
(i) Integer stream (ii) Short stream
(iii) Byte stream (iv) Long stream
- 9 What is a listener in context to event handling?
(i) A listener is a variable that is notified when an even occurs
(ii) A listener is a object that is notified when and event occurs
(iii) A listener is a method that is notified when and event occurs
(iv) None of the mentioned
- 10 Which of these method can be used to know which key is pressed?
(i) getActionEvent() (ii) getActionKey()
(iii) getModifier() (iv) getKey()

Cont...

SECTION - B (25 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks (5 x 5 = 25)

- 11 a How do you implement type conversion and casting concept in Java?
Explain with an example.
OR
b Compare methods and constructors with example.
- 12 a Differentiate method overloading and method overriding with example.
OR
b Explain how to create your own exception with example.
- 13 a How do you implement suspend(), resume() and stop methods in thread?
Explain with example.
OR
b Write a java program to remove all occurrences of a given character from input String.
- 14 a Tabulate CharacterStream classes and its uses.
OR
b Sketch and explain the skeleton of applet with example.
- 15 a Summarize the Events Listener Interfaces
OR
b Construct Java program to design a login page.

SECTION -C (40 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks (5 x 8 = 40)

- 16 a How do you implement automatic type conversion for all data types in expression? Explain with example.
OR
b Examine the uses of i) this keyword ii) finalize() method
- 17 a How can you implement reusability concept in Java? Explain with example.
OR
b Construct a Java program to create a simple package program.
- 18 a Construct a Java program to create a thread using two ways.
OR
b What are the string searching methods? Explain with example.
- 19 a What are different methods used to read and write a file in Byte Stream?
Explain with example.
OR
b Describe HTML applet tag with example.
- 20 a Develop a Java program that handle different Key Event class methods.
OR
b Demonstrate uses of JTextField in Swing.

Z-Z-Z

END