



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination –November 2019
III Semester

Class : II B.Sc CS/BCA

Major : Computer Science/Computer Applications

Time: 3 hours

Max. Marks: 100

18BCSC12 – Programming in JAVA

Part A

10 x 1 = 10

Choose the correct answer

1. Java source code is compiled into _____ when we use the Java c compiles
a) code b) byte code c) data d) program
2. If a=10, b=15, then the statement **x=(a > b) ? a : b;** assign the value _____ to x.
a) 10 b) 5 c) 25 d) 15
3. _____ can holds objects of any type and any number
a) Array b) Vector c) Variable d) Constant
4. A class that cannot be sub classed is called _____
a) base class b) final class c) derived class d) abstract class
5. _____ inheritance is not support by java
a) Multilevel b) Multiple c) Single d) Hybrid
6. _____ string method gives the nth character of the string s1
a) CharAt() b) s1.trim() c) s1.length() d) String.valueOf(n)
7. Which one of the following package supports set of classes for implementing graphical user interface
a) java.io b) java.lang c) java.awt d) java.applet
8. _____ means that the thread is ready for execution and is waiting for the availability of the processor
a) Newborn state b) Runnable state c) Running state d) Blocked state
9. Exceptions are used to handle _____
a) compile time error b) runtime error
c) both compile time error and runtime error d) data
10. Applet enters the running state when the system calls the _____ method
a) init() b) start() c) stop() d) paint()

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

11. a) Explain various data types in java with example
(OR)
11. b) Explain if.. else statement with suitable example
12. a) Explain about Method Overloading with example
(OR)
12. b) Explain StringBuffer Classes with suitable example
13. a) Explain about Method Overriding with example
(OR)
13. b) Write a java program to find the length of the given string
14. Give an example where interface can be used to support multiple inheritance? Explain
(OR)
14. b) Explain about various levels of Access Modifier available for packages?
15. a) Explain about Exception Handling Mechanism in Java
(OR)
15. b) Explain the following Graphics methods with example
- i) Drawing Lines
 - ii) Drawing Rectangles

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

16. a) Discuss in details about the various types of Operators with example
(OR)
16. b) Explain the following with example
- i) do while loop
 - ii) while do loop
 - iii) for loop
17. a) Explain about various String Handling Functions with example
(OR)
17. b) Write a java program to perform addition and subtraction of two matrices
18. a) Discuss in detail about various types of Inheritance
(OR)
18. b) Explain the following
- i) Final Variable
 - ii) Final Method
 - iii) Final Class
19. a) Explain the following
- i) Defining interfaces
 - ii) Extending interfaces
 - iii) Implementing interfaces
- (OR)
19. b) What is meant by Package? Explain how to create and access the packages with suitable example
20. a) Explain the following
- i) What is Applet Tag? How to add Applet to HTML file?
 - ii) Applet Life Cycle
- (OR)
20. b) Discuss in details about the various types of MouseEvents with suitable example
