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Reg. No. :

Code No. : 21019

Sub. Code : GMCA 31

B.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2014.

Third Semester

Computer Applications — Main

JAVA PROGRAMMING

(For those who joined in July 2012 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which of the following is not a primitive data type?
(a) Boolean (b) Byte
(c) String (d) Double
2. Which of the following statements will result in compilation error?
(a) signed int a; (b) unsigned int a;
(c) signed byte a; (d) signed long a;

3. Automatic conversion from primitive type to an object of the corresponding wrapper class is called
(a) coercing (b) casting
(c) widening (d) boxing
4. _____ can be used to copy data from one array to another.
(a) system.clone (b) java.lang.to copy
(c) system.arraycopy (d) java.lang.clone
5. To promote encapsulation, java provides an access modifier of type
(a) public (b) private
(c) protected (d) none of these
6. Which of the following methods is invoked by the garbage collector?
(a) destructor (b) constructor
(c) finally (d) finalize
7. When we invoke repaint() for a component, the AWT invokes the method
(a) draw() (b) show()
(c) update() (d) paint()



8. When we implement the runnable interface, we must define the method

- (a) start()
- (b) run()
- (c) main()
- (d) resume()

9. Which exception is thrown by the read() method of inputstream class?

- (a) Exception
- (b) File not Found Exception
- (c) ReadException
- (d) IOException

10. Which of the following packages is imported by default?

- (a) java.lang
- (b) java.io
- (c) java.math
- (d) java.text

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Why java is important to the Internet? Explain.

Or

(b) What do you mean by type conversion and casting? Explain.

12. (a) Write about garbage collection.

Or

(b) Explain about recursion with an example.

13. (a) Write about multithreading.

Or

(b) Explain about the alive() and join() with examples.

14. (a) Explain about the event handling mechanisms.

Or

(b) Write about adapter classes.



15. (a) Explain the fundamentals of AWT control.

Or

- (b) Explain the steps for handling buttons.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Describe about the overview of java in detail.

Or

- (b) Discuss the various datatypes available in Java.

17. (a) Describe about the overloading methods.

Or

- (b) Write a java program to sort the given numbers in ascending order.

18. (a) Describe about interthread communication with an example.

Or

- (b) Illustrate the use of try and catch blocks to handle an arithmetic exception.

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19. (a) Explain about the four methods in an applet skeleton.

Or

- (b) Write a Java program that will count the number of characters in a file.

20. (a) Explain the following :

- (i) Using a text field
- (ii) Using a text area.

Or

- (b) Write an applet code that draws a line graph showing the relationship between X and Y as given below :

X: 0 60 120 180 240 300 360

Y: 400 280 220 140 60 60 100

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