

Code No. : 20096 E Sub. Code : SMCS 31/ SMSE 31

B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023

Third Semester

Computer Science / Software Engineering - Core

JAVA PROGRAMMING

(For those who joined in July 2017-2019)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

- 1. Which of these can be returned by the operator &?
  - (a) Integer
  - (b) Boolean
  - (c) Character
  - (d) Integer or Boolean
- 2. Generics does not work with?
  - (a) Set
  - (b) List
  - (c) Tree
  - (d) Array

- 7. Which of these modifiers can be used for a variable so that it can be accessed from any thread or parts of a program?
  - (a) transient
  - (b) volatile
  - (c) global
  - (d) No modifier is needed
- 8. What is a listener in context to event handling?
  - (a) A listener is a variable that is notified when an event occurs
  - (b) A listener is a object that is notified when an event occurs
  - (c) A listener is a method that is notified when an event occurs
  - (d) None of the mentioned
- 9. When we invoke repaint () for a java.awt. Component object, the AWT invokes the method:
  - (a) draw()
  - (b) show()
  - (c) paint()
  - (d) update()
- 10. In which places can put the event handling code?
  - (a) Same class
  - (b) Other class
  - (c) Annonymous class
  - (d) All mentioned above

- 3. Which of these operators is used to allocate memory for an object?
  - (a) malloc
  - (b) alloc
  - (c) new
  - (d) give
- 4. A class member declared protected becomes a member of subclass of which type?
  - (a) public member
  - (b) private member
  - (c) protected member
  - (d) static member
- 5. Which of these is a mechanism for naming and visibility control of a class and its content?
  - (a) Object
  - (b) Packages
  - (c) Interfaces
  - (d) None of the Mentioned
- 6. Thread priority in Java is?
  - (a) Integer
  - (b) Float
  - (c) double
  - (d) long

PART B — (5 × 5 = 25 marks)

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

Either answer should not exceed 250 words

- 11. (a) Describe the bitwise operators with suitable examples.
 

Or

 (b) Explain What is dynamic initialization of a variables.
- 12. (a) Explain about the various command line argument and its usage.
 

Or

 (b) Write a short note on method over riding.
- 13. (a) Write a steps to create and import packages.
 

Or

 (b) Illustrate Java thread model with suitable diagram.
- 14. (a) Write a short note on Applet Display method.
 

Or

 (b) Describe about Mouse Event.

15. (a) Explain working with Fonts and Colors in AWT class.

Or

(b) Write a short note on Menu bars and Menus.

PART C — (5 × 8 = 40 marks)

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

Either answer should not exceed 600 words

16. (a) Explain the features of java and say why it is important?

Or

(b) Explain the usage of constructors with suitable example.

17. (a) Write a program using Recursion function.

Or

(b) Distinguish Inheritance and Interface with suitable example.

18. (a) Write a program to calculate area of various shapes by importing shape package.

Or

(b) Explain in detail about Thread Lifecycle with neat sketch.

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19. (a) Explain in detail about various methods of Applet class.

Or

(b) Discuss about Event classes with suitable syntax.

20. (a) Expound working with Frame Windows in AWT class.

Or

(b) Explain various control in AWT with suitable example.

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