(6 pages)　　　　　Reg. No. : ....

Code No. : 41323 E　　Sub. Code : SMCS 31

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2018.

Third Semester

Computer Science — Main

JAVA PROGRAMMING

(For those who joined in July 2017 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 a valid declaration of an object of class colg?

    (a) colg obj = new colg( );

    (b) colg obj = new colg;

    (c) colg = new colg( )

    (d) new obj colg;

2. What is the return type of a method that does not returns any value?

    (a) int　　　　　(b) float

    (c) void　　　　(d) double

3. What is the process of defining a method in terms of itself, that is a method calls itself?

    (a) polymorphism　(b) abstraction

    (c) recursion　　　(d) encapsulation

4. The keyword ————————— can be used to prevent method over riding.

    (a) static　　　(b) constant

    (c) protected　(d) final

5. —————————is used to generate an exception explicitly.

    (a) try　　　(b) finally

    (c) catch　　(d) throw

6. Which of the following decides thread priority?

    (a) process

    (b) process scheduler

    (c) thread

    (d) thread scheduler

7. Which of these package contains all the classes and methods required for event handling in Java?

    (a)   java.applet

    (b)   java.awt

    (c)   java.event

    (d)   java.awt.event

8. itemStateChanged( ) method is defined in ——————— interface.

    (a)   component listener

    (b)   container listener

    (c)   action listener

    (d)   item listener

9. ——————— are passive controls that do not support any interaction with the user.

    (a)   choice   (b)   list

    (c)   labels   (d)   check box

10. Which is used to store data and partial results, as well as to perform dynamic linking, return values for methods and dispatch exceptions?

    (a)   window   (b)   panel

    (c)   frame   (d)   container

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) What do you mean by object and class? Explain and give examples.

Or

    (b) What is a constructor? What are its special properties? How do we invoke a constructor?

12. (a) Describe, how to use objects as parameters with an example program.

Or

    (b) Discuss about access control.

13. (a) What are interfaces? Explain.

Or

    (b) How will you create a thread? Discuss.

14. (a) Describe Applet Architecture.

Or

    (b) Illustrate passing parameters to applet.

15. (a) Describe the use of AWT control labels.

Or

    (b) Explain the use of flow layout.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain the features of automatic type promotion in expressions and arrays.

Or

(b) Illustrate

(i) Finalize ( ) method

(ii) Primary data types.

17. (a) Explain about

(i) Nested and inner classes

(ii) Basics of inheritance.

Or

(b) With an example program, explain method overriding.

18. (a) Describe the features of exception handling.

Or

(b) What is packages? Explain its access protection and how will you import packages.

19. (a) Describe event handling mechanisms and event classes in detail.

Or

(b) Explain sources of events and event listener interfaces in detail.

20. (a) (i) What do you understands about AWT classes?

(ii) Explain working with frame windows and graphics.

Or

(b) Explain the usage of AWT controls

(i) Buttons

(ii) Check boxes

(iii) Choice controls

(iv) Text editing

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