Question Paper Code: 54022

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Fourth Semester

Computer Science and Engineering

15UCS402 - JAVA PROGRAMMING

(Regulation 2015)

(Common to Information Technology)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Which will legally declare, construct, and initialize an array?

    (a) int [ ] myList = {"1", "2", "3"};   (b) int [ ] myList = (5, 8, 2);
    (c) int myList [ ] [ ] = {4,9,7,0};   (d) int myList [ ] = {4, 3, 7};

2. Which access specifiers can be used for an interface?

    (a) Public   (b) Protected   (c) private   (d) All the above

3. Which constructs an anonymous inner class instance?

    (a) Runnable r = new Runnable() { };
    (b) Runnable r = new Runnable(public void run() { });
    (c) Runnable r = new Runnable { public void run(){}};
    (d) System.out.println(new Runnable() {public void run() { }});

4. Which of these methods are used to read in from file?

    (a) get( )   (b) read( )   (c) scan( )   (d) readFileInput( )

5. AWT stands for

    (a) All Window Tools   (b) All Writing Tools
    (c) Abstract Window Toolkit   (d) Abstract Writing Toolkit

6. What's the difference between an interface and an abstract class?

7. Define constructer and its types.

8. State the difference between the methods sleep( ) and wait( ).

9. How do you know if an explicit object casting is needed?

10. Define JLabel.

PART - C (5 x 16 = 80 Marks)

11. (a) Explain in detail about oops concepts. (16)

Or

(b) Explain in detail about Arrays with suitable example. (16)

12. (a) Explain in detail about inheritance concepts. (16)

Or

(b) Create single level and multiple inheritances in JAVA. Write a JAVA program to demonstrate combination of both types of inheritance as (A, B) -> C -> D. (16)

13. (a) State the mechanisms how JAVA exceptions are handled. State the difference between two sub-class of Throwable class namely Exception and Error. (16)

Or

(b) Explain in detail about exception handling with example. (16)

14. (a) Write a program to implement the concept of Linked list with various operations. (16)

Or

(b) Explain the differences between byte stream and character stream with necessary examples. (16)

15. (a) Explain swing controls with example. (16)

Or

(b) Write the purpose of the following swing components:

(i) JLabel   (ii) JTextField   (iii) JScrollPane (16)

54022