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Question Paper Code: 44023

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

Fourth Semester

Computer Science and Engineering

14UCS403 - JAVA PROGRAMMING

(Common to Information Technology)

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- This pointer refer
 - Current object
 - Current method
 - Current variable
 - All the above
- Consider public class MyClass{ public MyClass(){/*code*/} // more code... } To instantiate MyClass, you would write?
 - MyClass mc = new MyClass();
 - MyClass mc = MyClass();
 - MyClass mc = MyClass;
 - MyClass mc = new MyClass;
- Which of these can be used to fully abstract a class from its implementation?
 - Objects
 - Packages
 - Interfaces
 - None of these
- Java does not support _____ inheritance
 - Multiple
 - Multilevel
 - Hierarchy
 - Simple

5. Which function of pre-defined class Thread is used to check whether current thread being checked is still running?
(a) is Alive () (b) Join () (c) is Running () (d) Alive ()
6. All exception types are subclasses of the built in class called
(a) Exception (b) Throwable (c) Package (d) Utility classes
7. Event class is defined in which of these libraries
(a) java.io (b) java.lang (c) java.net (d) java.util
8. Which is the container that doesn't contain title bar and MenuBars. It can have other components like button, textfield etc?
(a) Window (b) Frame (c) Panel (d) Container
9. Which of these classes can be used to implement input stream that uses a character array as the source
(a) Buffered Reader (b) File Reader
(c) Char Array Reader (d) File Array Reader
10. Which of these is a method of ObjectOutputStream interface used to finalize the output state so that any buffers are cleared?
(a) clear() (b) flush() (c) fflush() (d) close()

PART - B (5 x 2 = 10 Marks)

11. Differentiate a constructor and a method.
12. What is an abstract class?
13. Can we have the try block without catch block?
14. What is AWT?
15. Infer the usage of Buffered Reader and Buffered Writer.

PART - C (5 x 16 = 80 Marks)

16. (a) (i) State the use of constructor and finalize() method in java using a programming example. Show how garbage collection is achieved here. (8)
- (ii) Why do we need static members and how to access them? Explain it with clear example. (8)

Or

- (b) Elaborate on the various object oriented concepts, with necessary illustrations. (16)

17. (a) Define Package. With suitable examples, explain how packages can be created, imported and used. (16)

Or

- (b) What is dynamic binding? Show with an example how dynamic binding works. (16)

18. (a) With illustrations explain multithreading, interrupting threads, thread states and thread properties. (16)

Or

- (b) How are exceptions handled in Java? Elaborate with suitable examples. (16)

19. (a) Write a program to simulate the layout and working of a calculator. (16)

Or

- (b) Write a program to simulate the layout and working of a calculator. Write a program for calculator using grid layout. (16)

20. (a) Describe about the different input and output streams and their classes. (16)

Or

- (b) Discuss Java database connectivity. Explain JDBC connectivity with suitable examples. (16)

