

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2011 – 12 & thereafter)

SUBJECT CODE: 11CS/MC/OP44

B. C. A. DEGREE EXAMINATION, APRIL 2015
FOURTH SEMESTER

REG. NO. _____

COURSE : MAJOR CORE
PAPER : OBJECT ORIENTED PROGRAMMING WITH JAVA
TIME : 30 MINUTES **MAX. MARKS: 20**

SECTION A
TO BE ANSWERED ON THE QUESTION PAPER ITSELF

Answer all the questions: 20 X 1 = 20

Choose the Best Answer:

1. Java can be used to create _____ types of programs.
a. three b. two c. four d. five.
2. The most commonly used separator in Java is the _____.
a. braces b. brackets c. semicolon d. period.
3. _____ is a mechanism that binds together code and the data it manipulates and keeps both safe from outside interference and misuse.
a. Inheritance b. Polymorphism
c. Encapsulation d. Abstraction.
4. An _____ is an application designed to be transmitted over the internet and executed by a Java-compatible web browser.
a. Web browser b. Applet c. Flash d. C++.
5. Java defines _____ integer types.
a. 4 b. 3 c. 5 d. 6
6. _____ are used by the thread scheduler to decide when each thread should be allowed to run.
a. Thread b. Thread Priorities c. Multitasking
d. Synchronization.
7. A special type of error that needs to be avoided while multitasking is _____.
a. try b. throw c. Deadlock
d. Interprocess communication.

8. _____ searches for the first occurrence of a character or substring.
a. indexOf() b. charAt() c. length() d. sort().
9. _____ implements the Enumeration interface.
a. String b. String Tokenizer c. Random d. Date.
10. The _____ class is a generator of Pseudorandom numbers.
a. Date b. String c. Random d. Swing.

Fill in the Blanks:

11. Int is always _____ bits.
12. _____ arrays are actually arrays of arrays.
13. _____ is the process of defining something in terms of itself.
14. An _____ is an abnormal condition that arises in a code sequence at run time.
15. _____ is a highly optimized set of instructions designed to be executed by the Java runtime system.
16. _____ is the process by which one object acquires the properties of another object.
17. _____ are collection of similar objects.
18. _____ are primary source and destination for data within many programs.
19. A _____ is a file that contains a list of other files or directories.
20. The _____ class encapsulates the current date and time.

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SECTION B

ANSWER ALL QUESTIONS: **5 X2=10 MARKS**

1. List any four features of Java.
2. How to create an object to a class?
3. What is an abstract class? Give example.
4. Define exception handling.
5. Explain Date class with its constructors?

SECTION C

ANSWER ANY EIGHT QUESTIONS: **8 X5=40 MARKS**

6. What are the lexical issues in Java?
7. Describe briefly the various operators available in java with suitable example.
8. Explain about Parameterized Constructor.
9. Describe Access Control statement in Java.
10. Explain Two-Dimensional array with an example.
11. Explain in brief about Inheritance in Java.
12. Write a Java program for method overriding.
13. Write a Java Program implementing try, catch, throw and finally.
14. What is Inter thread communication? How is it implemented in Java?
15. Describe briefly about the importance of Java Utilities.

SECTION D

ANSWER ANY THREE QUESTIONS: **3 X10=30 MARKS**

16. Explain in detail about the various loop structures in Java.
17. Write a Java program which demonstrates for
 - a. Method Overloading
 - b. Constructor Overloading.
18. What is meant by Package and Explain how to create and import a package with an example?
19. Explain in detail about the life cycle of a Thread.
20. Write a Java Utility program for
 - a. Vector Class
 - b. Random Class.
