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Paper Code : PCC-CS503/PCCCS50 3/PCCCS503 Object Oriented Programming

UPID : 005504

Time Allotted : 3 Hours

Full Marks : 70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. Answer *any ten* of the following :

[1 x 10 = 10]

- (I) Give an example of illegal identifier.
- (II) What is bytecode in context of java?
- (III) Applet can be used for generating static or dynamic webpage?
- (IV) Arrays in java are objects or classes?
- (V) Java compiler is written in which language?
- (VI) What cannot be used for variable name in java?
- (VII) What is a package in java?
- (VIII) Why java is called robust programming language?
- (IX) JVM is platform independent or not?
- (X) The relation between classes can be represented by what?
- (XI) Exception created by try block is caught in which block?
- (XII) When finalize() method is called _____.

Group-B (Short Answer Type Question)

Answer *any three* of the following :

[5 x 3 = 15]

2. What is thread? Explain thread creation methods. [5]
3. Write down the differences between procedure-oriented and object-oriented programming. [5]
4. What does the JVM do? Why java is called compiler-interpreter language? [5]
5. How inheritance is incorporated in java? Is it possible in java to implement multiple inheritance? [5]
6. Discuss Applet life cycle indicating the functions. [5]

Group-C (Long Answer Type Question)

Answer *any three* of the following :

[15 x 3 = 45]

7. a) What are exceptions? Explain the user defined exceptions and system defined exceptions with suitable examples. [15]
b) How do we define try and catch block? Is it essential to catch all types of exceptions?
8. a) How applet is different from frame and panel? Explain. [15]
b) How threads are made to communicate with each other? Explain with example.
c) Explain any three events with suitable example.
9. Write short notes from *any three* of the following: [15]
a) Interface
b) Abstraction
c) Inheritance
d) Encapsulation
e) Virtual method table
10. a) Explain method overloading with an example. [15]
b) What is class? How does it accomplish data hiding?
c) What is constructor? What does the finalize method() do?
11. a) Explain thread life cycle [15]
b) Discuss Applet life cycle indicating the functions
c) What are wrapper classes? Why do we need wrapper classes? What is byte code?

*** END OF PAPER ***