

Java Programming-212

Sem-III

Time 3hrs

M.M.- 70

Note: - The Candidates are required to attempt Two questions each from Section A & B. C will be compulsory

Section A

- Q1. Differentiate between:
- a) switch statement and if statement
 - b) break and continue
- Q2. What is inheritance? Discuss different types of inheritance available in java. 10.5
- Q3. Design a class named Fan to represent a fan. The class contains:
- Three constants named SLOW, MEDIUM & FAST with values 1, 2 & 3 to represent speed. One int data field named speed that specifies the current speed of fan (default 1).
 - A boolean data field named on specify whether fan is on or off (default false). A color data field (default blue)
 - A no-argument constructor to create a default fan.
 - A constructor to create a fan specified by arguments.
 - A method named compare that returns the speed difference of current fan with other fan of the Fan type.
- Write a test program that creates two fans, one default and other with speed 3, color green and turn on. Compare and Display the faster fan with all its attributes. 10.5
- Q4. What is a constructor? Explain the different kinds of constructors available in Java. Why no destructor is available in Java? 10.5

Section B

- Q5. Explain the concept of the classpath. How it is related to the "Class not found" error? Give example based on java packages. 10.5
- Q6. Explain the exception handling mechanism in java. How throw differs from throws? Explain with example. 10.5
- Q7. How many ways a thread can be created? Illustrate the pros and cons of the different ways of creating a thread. 10.5
- Q8. Explain the life cycle of an applet? What is the order of method invocation in an applet? 10.5

Section C

- Q9. a) List any four characteristics of Java Language?
- b) Discuss the usage of wait(), notify() and notifyAll()
- c) Explain Static Fields & Static Methods.
- d) How can we prevent a class from being extended?
- e) Is it essential to catch all types of exceptions?
- f) Explain the use of super and this keyword.
- g) What is the difference between importing and extending a class? 7 X 4 =28