



SP-2006

Seat No. _____

B. Sc. (IT) (Sem. VI) Examination

April / May – 2006

Programming in Java & E - Commerce

Time : 3 Hours]

[Total Marks : 100

- 1: Attempt any four of the following 20
1. Define the term 'Bytecode' and 'JVM' and highlight its importance in Java language.
 2. Listout various tools(utilities) of JDK and explain the role of each in brief.
 3. What is garbage collection? How it is achieved in Java Language?
 4. What is an Interface? Why it is necessary in Java language?
 5. What do you mean by method Overloading and method Overriding?
- 2: Attempt any Four of the following 20
1. Explain various types of java variables.
 2. What is access modifier? Explain briefly various types of access modifiers available in Java.
 3. What is Java package? Show its importance and listout various Java packages with its purpose.
 4. Explain any four methods of String class with its syntax and usage.
 5. Highlight importance of wrapper classes and list out various wrapper classes available in java.
- 3 (A) : Answer any two of the following 12
1. What is thread? Explain thread state mechanism.
 2. Explain the verbs: try, catch, throw, throws.
 3. What is event handling? Explain the event delegation model covering various types of events.
- 3 (B) :Write Java application programs for the following (Any Two) 8
1. To display factorial of any number.
 2. To print first N prime numbers, N must be entered as command line argument.
 3. A meaningful program showing the use of threads.
- 4 (A) : Attempt any two 12
1. Define the term 'applet' and explain its life cycle.
 2. What is Layout manager ? List out various Layouts and explain any one in detail.
 3. Define the term 'stream' and explain CharacterStreams and ByteStreams.
- 4 (B) : Attempt any two of the following 8
1. Write Java applet program which displays a textbox and a button in a grid layout, when you click on button it should display your name in the text box.
 2. Write an applet code to display a smiling face.
 3. Write note on InputStreamReader & BufferedInputSream.
 4. What is Socke ? List out various Socket classes and specify its usage.
- 5 Attempt any Four 20
1. Define the term e-Commerce and state its advantages.
 2. Explain Distribution Chain.
 3. What is Cryptography? Explain types of Cryptography.
 4. Write brief note on any two of the following.
 - a. EDI
 - b. Virtual Shop
 - c. Certificate Authority
 5. Write note on types of E-Commerce.

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[200]