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BCMCAV 254

**Credit Based Fourth Semester B.Com. Degree Examination, April/May 2017
(2013-14 Onwards)**

**COMPUTER APPLICATIONS (Vocational)
(Common to all Batches)**

Paper – VII : Java Programming

Time : 3 Hours

Max. Marks : 80

PART – A

1. Answer **any ten** of the following questions :

(10×2=20)

- Mention different hardware and software requirements.
- Write the precedence of the arithmetic operators.
- Mention any four mathematical functions.
- Write any two applications of wrapper classes.
- What are advantages of Vector over array ?
- What is meant by constructor ? How do you invoke a constructor ?
- What is meant by access modifier ? Mention different types.
- How to hide the classes in a package ? Give example.
- Give example for any two system packages.
- Mention different states of thread.
- What is an error ? How does it differ from an exception ?
- What are multiple catch block ? Give an example.

PART – B

Note : Answer any one full question from each Unit.

Unit – I

- Explain the structure of a typical java program.
- Explain any six tools of Java Development Kit (JDK).
- Write a note on command line argument.

(5+6+4)

P.T.O.



3. a) What are separators ? Explain the different java separators.
b) Explain the different features of Java.
c) Explain conditional operator with syntax and example. (5+6+4)

Unit – II

4. a) What is an array ? Explain how a one-dimensional array are created, declared and initialized with an example.
b) What is meant by access modifier ? What are the different types of access modifiers available in Java Programming ?
c) What are object ? How do you create them ? (6+6+3)
5. a) Explain any three decision making statements with syntax and example.
b) Write a note on subclass constructor. Give example.
c) What is a vector ? Explain any four vector methods. (6+4+5)

Unit – III

6. a) What are package ? What are the advantages of package ?
b) What is an interface ? Give the syntax and example for defining, extending and implementing the interface.
c) How to add new class to an existing package ? (5+6+4)
7. a) Explain how to create and access Package.
b) What is an Interface ? How does Interface differs from class ? Give example.
c) Write a note on JAVA API Packages. (4+5+6)

Unit – IV

8. a) What is the different between runnable and running state in a thread ? Explain the methods used for blocking thread.
b) With suitable example code, explain how we can throw our own exception.
c) Write a note on thread exceptions. (6+4+5)
9. a) Explain how to handle exceptions in java.
b) What is an Exception ? List some of the common types of exceptions.
c) What is a Thread ? Explain the different ways of creating a thread. (5+6+4)