AT–413

B.Sc. (Part–III) Semester—VI Examination

6S : COMPUTER APPLICATION (VOC.)

(Advanced Java and ASP)

Time : Three Hours]   [Maximum Marks : 80

N.B. :— (1) Question No. **1** is compulsory.

(2) Assume suitable data wherever necessary.

(3) Illustrate your answer with the help of neat sketches wherever necessary.

1. (A) Fill in the blanks (½ mark each) :

(i)   A ___ is a small file that the server embeds on the user's computer.

(ii)   ___ are containers for classes that are used to keep the class name compartmentalized.

(iii) The exception thrown has been caught by _____ clause in Java.

(iv)   The _____ contains the body of the thread.   2

(B) Choose the correct alternative :

(i)   Which object is used to get information from a visitor ?

(a) Server object   (b) Session object

(c) Request object   (d) None

(ii)   Execution is a method of _____ object.

(a) Server   (b) Application

(c) Session   (d) Response

(iii) Which tool is used for debugging Java program ?

(a) Java c   (b) Java

(c) Jdb   (d) Java doc

(iv)   What tags are mandatory when creating an HTML to display an applet ?

(a) Name, height, width   (b) Codebase, height, width

(c) Code, height, width   (d) Code, name, width   2

(C) Answer in **one** sentence each :

    (i)   What is meant by package ?

    (ii)   What is the collections API ?

    (iii) What state does a thread enter when it terminates its processing ?

    (iv) What is meant by object collection ?   4

2. (A) How array can be declared and initialized ? Give example.   6

    (B) Explain Java API packages.   6

OR

3. (A) Describe any four string operations with example.   6

    (B) Write a program in Java to search an integer from a given array.   6

4. (A) How multiple threads can be created ? Explain with example.   6

    (B) Explain :

        (i)   Throws

        (ii)   Finally.   6

OR

5. (A) Explain run, get priority and join methods of a thread class.   6

    (B) What is exception handling ? Explain with suitable example.   6

6. (A) Explain the following methods :

        (i)   Update

        (ii)   Paint.   6

    (B) Explain repaint method and its necessity.   6

OR

7. (A) Explain :

        (i)   Applet tag

        (ii)   Applet code.   6

    (B) Write a program in Java for applet showing text message in different colors.   6

8. (A) Write an ASP showing the use of cookies.   6

    (B) Explain the following properties of session object :

        (i)   Code Page

        (ii)   Session ID.   6

OR

9. (A) Explain Application Object Method. 6

   (B) Explain various properties and methods of session object. 6

10. (A) Describe the conditional tracing approach of debugging ASP scripts. 6

   (B) Explain :

     (i) Application – On End

     (ii) Application – On Start. 6

<div align="center">OR</div>

11. (A) What is meant by error ? Explain various types of errors in ASP. 6

   (B) Explain session event code with example. 6

12. (A) Explain the ADRotator component. 6

   (B) Explain the following methods of server objects :

     (i) Execute

     (ii) Transfer

     (iii) URL Encode. 6

<div align="center">OR</div>

13. (A) Explain the content linking component of an ASP. 6

   (B) Explain :

     (i) Server object

     (ii) ASP errors. 6