TCS–603/TIT–603

**B. TECH. (CS/IT) (SIXTH SEMESTER)
MID SEMESTER EXAMINATION, 2018**

ADVANCE JAVA PROGRAMMING

Time : 1 : 30 Hours

Maximum Marks : 50

Note :(i) This question paper contains two Sections.

(ii) Both Sections are compulsory.

Section—A

1. Fill in the blanks/True-False :   (1×5=5 Marks)

(a) HTML tag for the largest heading is ....

(b) A .... method is always called using its class name followed by a Dot (.) and method name.

(c) The href attribute provides address information for links.   (True/False)

(d) .... Class is used to create a user defined exception.

(e) An application can use a .... to verify that XML data is valid.

2. Attempt any *five* parts :   (3×5=15 Marks)

(a) Why do we need run( ) and start( ) method both ? Can we achieve it with only run method ?

(b) What is a stream and which class allows you to read objects directly from a stream ?

(c) Describe the function object in JavaScript with an example.

(d) What are the differences between DTDs and XML Schema ?

(e) What happens when there is no suitable try block to handle exception ?

(f) What are the advantages of XML over HTML ?

Section—B

3. Attempt any *two* parts of choice from (a), (b) and (c).   (5×2=10 Marks)

(a) Write a JavaScript code to test whether the given number is Armstrong number or not.

(b) Briefly discuss about I/O stream structure in java with example.

(c) Write a vector based program to :

(i) Create a vector with initial capacity of 5 elements.

(ii) Decrease the size of vector by 2 elements.

(iii) Display all the elements from the vector.

(iv) Fetch a specific value from a vector on the user choice and replace it with value specified by the user.

(v) Display all the elements from the vector.

4. Attempt any *two* parts of choice from (a), (b) and (c).   (5×2=10 Marks)

(a) Explain the importance of XML in web applications.

(b) Discuss ArrayList class and its methods in brief.

(c) With illustrations explain multithreading interrupting threads, thread states and thread properties. Write a code snapshot to show the use of yield( ), stop( ) and sleep( ) methods.

5. Attempt any *two* parts of choice from (a), (b) and (c).   (5×2=10 Marks)

   (a) Explain the different types of cascading styles with suitable examples.

   (b) Design the static web page that display a marks table with three rows and three columns as shown below :

Marks 1	Marks 2	Marks 3
90	90	99
81	80	82

   (c) What are wrapper classes ? What are the wrapper classes available for primitive types ? Explain auto boxing in brief.

F. No. : a-32