(i) **Printed Pages : 3**   Roll No. ....

(ii) **Questions** : **9**   **Sub. Code :** | 0 | 2 | 6 | 2 |

Exam. Code : | 0 | 0 | 3 |

B.A./B.Sc. (General) 3rd Semester
1125
COMPUTER APPLICATIONS
Paper–A : Web Based Applications

Time Allowed : Three Hours]   **[Maximum Marks : 65**

Note :–   Attempt **five** questions in all, selecting **one** each from Section A, B, C and D question IX is compulsory.

SECTION—A

I.   Explain the following :

(a)   Types of computer networks

(b)   Network hardware

(c)   Sending data through forms in HTML.   4,4,5

II.   (a)   What is URL ? Why is it used ? Explain different components of URL.

(b)   What do you mean by style sheets ? What are different types of style sheets ? Explain giving an example showing precedence of style sheets.   4,9

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III. (a) What are events ? Explain the term 'Event Handling'. Write a program in Java script that adds two numbers when add button is pressed.

(b) Write a program in Java showing overloading of constructors.

7,6

IV. (a) What are string arrays ? How are they different from normal integer arrays ?

(b) Compare and contrast features of C++ and Java.   5,8

SECTION—C

V. (a) What are access specifiers ? Differentiate between private and protected members of a class. Discuss these in relation to their accessibility outside the class and inheritance.

(b) What is an Interface ? Write a program in Java showing use of interface in a Java program. Also explain the steps of your code.   7,6

VI. Explain in detail :

(a) Dynamic method dispatch

(b) Calling constructors of super class

(c) Try and catch clauses

(d) Importing packages and their use.   3,3,3,4

VII. (a) What do you mean by thread synchronization ? How is it achieved ? Give example.

    (b) What are applets ? How are these different from applications ?

    (c) What are I/O streams ? How are these helpful in input and output of data ?   5,4,4

VIII. (a) How can threads be implemented in a Java program ? What is the use of runnable interface in multi threading ?

    (b) Write a program that reads a character form console and displays its ASCII code.   7,6

(Compulsory Question)

IX. (a) What is WWW ?

    (b) What are lists ? What are its types ?

    (c) What are client side objects ?

    (d) Write a note on JVM.

    (e) What are packages ? Give one example.

    (f) What are abstract classes ?

    (g) What is inter-thread communication ?   13