2016

M.Sc.

3rd SEMESTER EXAMINATION

COMPUTER SCIENCE

PAPER—COS-304

Full Marks : 50

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

(*Wireless Network*)

Group—A

[Marks : 25]

Answer any *two* questions.

1. (a) Answer the followings :   3×1

   (i) Distinguish between hard and soft hand off ;

    (ii) Differentiate between Geo stationary and Polar Satellite ;

    (iii) Differentiate between directional antenna and omni directional antenna.

(b) What is multipath propagation of signal ? How do you calculate the delay of a multipath propagation ?

2+2

(c) What is challenge in mobile computing ?   3

2. (a) What is mobile computing ?

(b) What are the essential steps involved in location management in a cellular mobile environment ?

(c) Write down functions of VLR in location management.

(d) Name three devices where mobile technology is used.

2+4+2+2

3. (a) Describe the structure of GSM Mobile architecture.

(b) Discuss the architecture of CDMA.

(c) What is mobile database ? Explain.

4+4+2

     (Continued)

4. Write short note on any *two* of the following : 2×5

 (a) GPS ;

 (b) AUC ;

 (c) GPS Satellite ;

 (d) Radio wave communications.

[*Internal Assessment — 5 Marks*]

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(*Web Technology*)

Group—B

[Marks : 25]

Answer any *two* questions.

1. (a) Differentiate between Page initialization and Page load.   2

 (b) What do you mean by List Controls ? Describe any one List Control available in .Net framework.

 (c) The image control is used for displaying images on a web page. Describe any two properties of it.

    3+(2+3)+2

(Turn Over)

2. What are ASP.NET directives ? Describe any two of them.

$$2+(4+4)$$

3. (a) What is the purpose of Base Validator Class ? Describe Regular Expression Validator in this context.

(b) What is Data Adapter Object ? How does Data Reader Object differ with this ?

$$(2+3)+(3+2)$$

4. Write short notes on any *four* : $4 \times 2\frac{1}{2}$

(a) Hierarchical data source controls ;

(b) Debugging ;

(c) CLR ;

(d) AutoPostBack ;

(e) Cookie ;

(f) Master Page.

[*Internal Assessment — 5 Marks*]