

# RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College under University of Calcutta)

SECOND YEAR

B.A./B.SC. FOURTH SEMESTER (January – June) 2013

Mid-Semester Examination, March 2013

Date : 06/03/2013

COMPUTER SC. (General)

Time : 12 noon – 1 pm

Paper : IV

Full Marks : 25

## Group – A

(Data Communication and Computer Network)

Answer *question no.1* and *any two* from the rest

1. Answer *any one* question 2 ½
  - a) What are protocols and standards?
  - b) List some of the transmission impairments.
  - c) What is IP addressing? Give example.
2. a) Discuss Mesh topology in brief.  
b) Define Wide Area Network and Local Area Network? 3+2
3. a) What is the difference between Port address and physical address?  
b) A block of IP address is granted to a small organization. We know that one of the addresses is 192.168.3.12 and the subnet mask is given as 255.255.255.0. What are the last and first addresses of the block? 4+1
4. a) What is URL?  
b) Describe the role of Browser in a client computer. 3+2

## Group-B (Software Engineering)

Answer *question no. 5* and *any one* from the rest

5. “Software Testing doesn’t include any error distribution”-true or false? Justify.

OR

Differentiate between Bespoke and Generic Software. 2½

6. a) Compare and contrast : Real time system & Distributed System 7  
b) What do you mean by Prototyping? Discuss the advantages of Prototype model over Classical Waterfall model. 1 + 2
7. Write short notes on the following:
  - i) Software maintenance issues 3
  - ii) Components of ERD 7