

# RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College under University of Calcutta)

SECOND YEAR

B.A./B.SC. FOURTH SEMESTER (January – June), 2012

Mid-Semester Examination, March 2012

Date : 20/03/2012

COMPUTER SCIENCE (General)

Time : 2 pm – 3 pm

Paper : IV

Full Marks : 25

Answer Question No. 1 and any two from the rest :

1. What do you mean by Software Engineering? What is the aim of it? Differentiate between verification and validation process of a software. [1+1+3]

OR

Write a short note on LAN, MAN and WAN. [5]

2. a) Describe the spiral model for software development life cycle with proper diagram. [8]  
b) What do you mean by SRS? [2]
3. a) What do you mean by protocol? Describe the key elements of it. [1+3]  
b) What do you mean by topology? Illustrate the concept of Mesh, Star and Ring topology. [2+4]
4. a) Differentiate between Distributed System and Real time system. [2]  
b) What do you mean by peer to peer process? Write name of the layers used in OSI model and describe any two layers of your choice. [2+4]  
c) How does a DFD differ from a flow chart with respect to their functionality. [2]



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