

RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College under University of Calcutta)

SECOND YEAR

B.A./B.Sc. FOURTH SEMESTER (January – June) 2015

Mid-Semester Examination, March 2015

Date : 19/03/2015

COMPUTER SCIENCE (General)

Time : 12 noon – 1 pm

Paper : IV

Full Marks : 25

[Use a separate answer book for each group]

Group – A

Answer any one question :

1. a) Describe Protocol and Standard in computer networking. [4]
b) What is the difference between internet and Internet? [2]
c) Compare TCP/IP and OSI model. [2·5]
d) Describe various transmission mediums in brief. [4]
2. a) Describe physical address, logical address and port address. [3]
b) Define Time domain representation and Frequency domain representation of composite signal. [4]
c) Compare TCP and UDP. [2]
d) Define various transmission impairments. [3·5]

Group – B

Answer any one question :

3. a) Differentiate between program and software product. [3]
b) What is principle of abstraction? [2]
c) Explain sequential cohesion with an example. [2+1]
d) Explain the criteria for selecting an appropriate life cycle model for a software project. [3]
e) What do you mean by adaptive maintenance? [1·5]
4. a) Why spiral model is called a meta model? [2·5]
b) What do you mean by phase containment of errors? [2]
c) Explain stamp coupling with an example. [1·5+1]
d) Explain software prototype. [2]
e) What are the main activities undertaken during feasibility study of software lifecycle model? [2·5]
f) Differentiate between classical and iterative waterfall model. [1]

————— × —————