

2008

COMPUTER SCIENCE

*(System Analysis, Design and
Software Engineering)*

PAPER—CS/MSC/1204

Full Marks : 50

Time : 2 hours

Answer any four questions

The figures in the right-hand margin indicate marks

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

Illustrate the answers wherever necessary

Module—M 1

(System Analysis, Design)

[Marks : 25]

Answer any two questions

1. What is SDLC ? Describe the steps of SDLC with proper diagram. 2 + 8

2. (a) Why testing is needed in SDLC ?
(b) Illustrate black-box and white-box testing.
(c) Write a short note on SRS. 1 + (3 + 3) + 3

3. (a) Why form designing is needed to develop a software ?
(b) How many types of forms are there depending upon their looks ?
(c) Briefly describe Risk Management with the essential activities. 2 + 5 + 3

4. (a) What are the task performed in requirement analysis ? Explain in brief.
(b) Distinguish physical DFD with logical DFD. 7 + 3

[*Internal Assessment : 5*]

Module—M2

(*Software Engineering*)

[*Marks : 25*]

Answer any *two* questions

5. (a) Explain Spiral Model with diagram.
(b) Explain in brief the procedure for cost/benefit determination. 5 + 5
6. (a) Explain with example the basic COCOMO Model.
(b) What is cohesion and coupling? 8 + 2
7. (a) What are difference between Object oriented and Function oriented design?
(b) Describe Verification vs Validation.
(c) What is data dictionary? 5 + 3 + 2
8. Draw an *E-R* diagram of Library Management System with proper explanation. Make suitable assumption. 10

[*Internal Assessment : 5*]
