

Con. 5931-08.

(REVISED COURSE)  
( 3 Hours)

RC- 7265

[Total Marks : 100

N. B. : (1) Question No. 1 is **compulsory**.

(2) Answer any **four** out of remaining **six** questions.

1. (a) Define software engineering and software process. How is process maturity assessed ? 10  
(b) State the factors that influence the selection of process model for software development. 10  
Compare process models (waterfall, spiral and RAD)
2. (a) How would you gather requirement specification for developing a— 10  
(i) Software Product  
(ii) Application.  
(b) What are the different methods of software estimation (cost, size, effort) ? State 10  
the risks involved in wrong estimation.
3. (a) What are the activities done during the planning phase ? Give the content of 10  
document plan.  
(b) "There is a sudden increase in the attrition (staff leaving the company) rate"—Analyze 10  
this risk, assess and create a RMMM plan for future use.
4. (a) "Large scale software is developed by thousands of people"—How is the quality 10  
of the software maintained. Discuss quality factors.  
(b) The software has version 1, version 1.1 and version 1.2. The version 2 is evolved 10  
from version 1.1. How would you assemble modules and retrieve version 2 from  
project database ? Explain version control.
5. (a) "Good design reduces maintenance cost" — Discuss design principles. 10  
(b) Explain the behavioural model for Home Alarm System. State the assumptions made. 10
6. (a) What are the errors that are uncovered during white box testing ? Mention the test 10  
and the corresponding test cases.  
(b) When does testing begin ? Explain acceptance testing and regression testing. 10
7. Write short notes on any **two** :— 20  
(a) Verification and Validation  
(b) Reverse engineering and Re-engineering  
(c) Implementation Plan.