

Con. 3263-09.

T.E. (IT) Sem VI (R)

28/5/09  
VR-5430

Software Engineering  
(REVISED COURSE)

3 p.m. to 6 p.m.

216

(3 Hours) [Total Marks : 100]

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

(2) Attempt any four questions from remaining questions.

(3) Assume data if required.

1. (a) Explain in detail the incremental model with the advantages and disadvantages.

(b) What are different size oriented metrics ? Give limitations of LOC.

2. (a) What are different steps involved in requirements engineering ? Which tool is used to specify requirements ?

(b) What are different types of Feasibility Studies conducted ? Give eg. of each when it is not feasible.

3. (a) Explain different types of White box testing and Black box Testing.

(b) Draw control flow graph for the PDL and find cyclometric complexity.

st1 ;

st2 ;

if(c1) st3 ;

else if(c2 or c3) st4 ;

else st5 ;

st6 ;

st7 ;

4. (a) Define Software Configuration Management. Explain Change Control Management and Version Control.

(b) What is configuration Audit and Configuration Database ?

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5. (a) Draw Gant chart and Activity Diagram for the following task set.

| Activity | Dependency | Duration (in Weeks) |
|----------|------------|---------------------|
| A1       | —          | 1                   |
| A2       | A          | 2                   |
| A3       | —          | 1                   |
| A4       | A1, A3     | 2                   |
| A5       | A2, A3     | 3                   |
| A6       | —          | 7                   |
| A7       | A1, A3     | 4                   |

(b) What are different types of Maintenance ? Give examples of each.

6. (a) What is Quality Assurance ? What are different parameters of Quality ?

(b) What is Coupling and Cohesion ? What should good design contain ?

7. (a) Capability Maturity Model

(b) Tools for Analysis.