TE/IT/VI (REV) 2015/1/2
Software Engineering

V-Ex-Scan

Con. 4045-12. GN-7328

(REVISED COURSE)

(3 Hours) [Total Marks : 100

N.B. : (1) Question No. 1 is **compulsory.**
(2) Attempt any **four** questions out of remaining **six** questions.
(3) All questions carry **equal** marks.
(4) Assume suitable data if **necessary.**

1. A system is designed for evaluation of various tenders received by an organization. It had various steps like data entry of bids, tabulation of bids, preparation of lowest bid document, entry of actual orders with actual prices negotiated, preparation of a 'deviation document' that will record all differences between lowest bid and actual orders. The entire system was built under text based UNIX and is being proposed to be changed to a GUI and windows based system. Draw data flow diagram (level 0, 1, 2, 3) and control flow diagram describing all details. 20

2. (a) Explain Software Configuration Management in detail. 10
(b) Compare and Contrast Coupling and Cohesion. 10

3. (a) Explain risk identification, risk projection, RMMM plan in detail. 10
(b) Explain how Gantt-chart can be used for planning and controlling small Projects with suitable example? What are the limitations of Gantt-Chart ? 10

4. (a) Explain various steps involved in SRS for case study in question no. one. 10
(b) What is feasibility study? Explain its types, contents and purpose. 10

5. Explain the difference between – 20
(i) White Box and Black Box Testing
(ii) Component Based Model and Spiral Model.

6. (a) Describe project scheduling and tracking with any suitable example. 10
(b) Explain in detail software project plan with case study in question no. one. 10

7. Write Short Notes on any **two** :- 20
(a) CMM and Key Process Areas
(b) Security engineering
(c) Reengineering
(d) Design Concepts and Principles.

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