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**B.E/ B.Tech. (Full-Time) END SEMESTER EXAMINATIONS, NOV/DEC 2011**

**BRANCH: IT**

**V SEMESTER – REGULATIONS 2008**

**IT9301 Software Project Management**

**Time: 3 hrs.**

**Max.Marks:100**

**Answer All Questions**

**Part – A (10X2 = 20 Marks)**

1. Highlight the important differences between modern and traditional project management practices.
2. Describe the features of Scrum model.
3. Summarize the steps involved in cost-benefit analysis.
4. What are the limitations of SLOC measure?
5. Differentiate activity-based and product-based approaches.
6. Describe the information associated with activity-on-node network.
7. Summarize Burman's priority list.
8. What is a slip chart? Explain its uses.
9. List the basic objectives of Taylor's organizational behaviour.
10. List the different types of people needed in a project team.

**PART B (5 X 16 = 80 Marks)**

11. (i) An example project specification with estimated activity durations and precedence requirements are given in Table 1.

Draw the precedence network for the specification provided in Table 1, clearly explain the status of the network after the forward and backward passes and identify the critical path in the network. (8)

- (ii) Explain the steps involved in the evaluations of the effects of uncertainty using PERT technique. (8)

Table 1

Activity	Duration (weeks)	Precedence
A	8	G
B	7	G
C	8	I
D	12	I
E	2	A,B
F	8	C,H
G	10	Nil
H	11	Nil
I	8	Nil
J	7	D,E,F

12.

- (a) (i) List the activities involved in the management of software projects and highlight the features in each activity. (8)  
 (ii) What is software prototyping? Discuss the different types of prototyping. (8)

{OR}

- (b) (i) Explain the steps/activities involved in project planning and highlight the importance of each step/activity. (10)  
 (ii) Explain the uses of Gantt chart with an example. (6)

13.

- (a) (i) List and explain the different software effort estimation techniques. (10)  
 (ii) Highlight the features of Monte Carlo simulation technique. (6)

{OR}

- (b) (i) Explain how cost estimation is done with COCOMO model. (10)  
 (ii) Explain the process of risk assessment. (6)

14.

- (a) Explain with illustrations, the steps involved in allocating resources for a project.

{OR}

- (b)  
 (i) Explain the common methods used in software projects for earned value analysis and highlight the performance statistics associated with it. (10)  
 (ii) Explain the types of contracts associated with software projects. (6)

15.

- (a) . Explain the steps involved in managing people in software environments.

{OR}

- (b) (i) Explain the organization and team structure used in software projects. (8)  
 (ii) Highlight the features of collaborative problem solving. (8)