

(9)

**B.E/ B.Tech.DEGREE EXAMINATION, NOV 2012.**

**FIFTH SEMESTER**

**INFORMATION SCIENCE AND TECHNOLOGY.**

**IT 9301- SOFTWARE PROJECT MANAGEMENT**

**Time: Three hours**

**Maximum: 100 marks**

**Answer ALL Questions.**

**PART A - (10 \* 2 = 20 MARKS)**

1. What is the project management triangle or the triple constraint?
2. Who are the project stakeholders?
3. Give the formula of payback period
4. Differentiate between Strategic Assessment and Technical Assessment?
5. Write short notes on Hammock activities.
6. Define a brainstorming technique?
7. "In allocating individuals to tasks, a number of factors need to be taken into account."What are they?
8. What is the traffic-light method?
9. What are the steps needed to become a team?
10. What are the leadership styles?

**PART B - (5 \* 16 = 80 MARKS)**

- 11.(i) Give an account of the step wise planning activities for a project?(10)  
(ii) With a neat labelled illustration show the step wise planning activities for a project? (6)

12.(a) What do you mean by cost benefit analysis? Explain the different categories of cost in detail. What are the various cost-benefit evaluation techniques?

(OR)

12 (b) Discuss about Risk Evaluation. Explain the business risks in detail?

13.(a) Show the information given in the table about project activities as an A-O-A diagram

Activity	Description	Duration (In Weeks)	Precedents
A	Hardware Selection	6	
B	Software Design	4	
C	Install Hardware	3	A
D	Code & Test Software	4	B
E	File Take-On	3	B
F	Write User Manuals	10	
G	User Training	3	E,F
H	Install & Test System	2	C,D

- i. Draw an activity network using CPM conventions for the project specified in the above table.
- ii. From the diagram, do the forward pass and calculate the minimum project duration
- iii. Draw the activity table after the forward pass.
- iv. Do the reverse pass and calculate the latest event times
- v. Draw the activity table after the backward pass.
- vi. Give the activity schedule showing the total float for each activity.
- vii. Calculate the free float and interfering float for each of the activities shown in the activity network.

viii. Show the critical path activities using the notation suggested.

ix. Assuming the completion time is critical; identify which activities you would suggest should be the focus for management situation.

(OR)

13.(b) Describe with an example how the effect of risk on project schedule is evaluated using PERT.

14. (a) Explain in detail about creating the framework for monitoring & control.

(OR)

14. (b) Write short notes on the following:

- i. Types of contract
- ii. Stages in contract placement

15(a) Define motivation. Explain the theories of motivation. Explain the methods to increase staff motivation.

(OR)

15(b) What is Decision making. Mention some mental obstacles to good decision making. Also differentiate what is group Decision making? What are the obstacles to good group decision making? List the measures to reduce the disadvantages of group decision making?