

## Section A (Answer all Questions)

1. Short answer type:- [ 2X10]
- What is software crisis and its causes?
  - What is Timeboxing?
  - What are different stages in RAD Model?
  - What do you mean by Cost-Benefit Analysis?
  - What are the effects of schedule compression?
  - What are the importance of CPM and PERT techniques?
  - What are the activities covered by Software Project Management?
  - Differentiate Macro and Micro Risks
  - Differentiate Upper CASE and Lower CASE
  - What are the advantages of Prototyping?

## Section B (Answer any 2 Questions)

2. [ 15]
- Prepare a Gantt chart based on the following data

ID	Name	Duration	Start	Finish	Predecessors
1	Req. Analysis	2 days?	9/5/11 ...	9/6/11 ...	
2	UI Requirements	2 days?	9/5/11 ...	9/6/11 ...	
3	Dynamic Data Requir	1 day?	9/5/11 ...	9/5/11 ...	
4	Animation Requireme	2 days?	9/5/11 ...	9/6/11 ...	
5	Template Selection	1 day?	9/7/11 ...	9/7/11 ...	1
6	Coding	6 days?	9/8/11 ...	9/15/11...	5
7	UI Coding	5 days?	9/8/11 ...	9/14/11...	
8	Admin Coding	3 days?	9/8/11 ...	9/12/11...	
9	Animation Coding	1 day?	9/8/11 ...	9/8/11 ...	
10	Unit Test	1 day?	9/15/11...	9/15/11...	7
11	Data Migration	7 days?	9/16/11...	9/26/11...	6
12	System Testing	1 day?	9/27/11...	9/27/11...	11

3. [ 15]

Do the Critical Path Analysis based on the following data

Task ID	Duration	Dependencies
A	10	
B	20	A
C	5	B
D	10	C
E	20	D, G, H
F	15	A
G	5	C, F
H	15	A

4. [ 15]

Prepare a PERT chart based on the following data

Activity ID	Optimistic Time	Most Likely Time	Pessimistic Time	Dependencies
A	5	6	8	
B	3	4	5	
C	2	3	3	A
D	3.5	4	5	B
E	1	3	4	B
F	8	10	15	
G	2	3	4	E, F
H	2	2	2.5	C, D

5. [ 15]

Briefly explain Monte Carlo Simulation