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**Question Paper Code : 50922**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017

Seventh/Eighth Semester

Information Technology

MG6088 – SOFTWARE PROJECT MANAGEMENT

(Common to : Computer Science And Engineering/Electronics and Communication Engineering/Industrial Engineering/B.E. Mechatronics Engineering)

(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. What is cost benefit analysis ?
2. Outline the need for risk evaluation.
3. What is rapid application development ?
4. Outline the advantages of agile unified process.
5. Appraise the need for modeling precedence networks.
6. Name the three time estimates in PERT.
7. What is change control ?
8. Define outsourcing.
9. What is Motivation ?
10. Outline the strategies for risk reduction can be adopted for the following software project  
risk : Personnel (staffing) shortfalls.



## PART – B

(5×16=80 Marks)

11. a) i) What is a project ? Outline the characteristics of project. (5)  
ii) How are infrastructure projects different from software projects ? Discuss. (5)  
iii) Outline the activities involved in management. (6)  
(OR)
- b) What is project planning ? Explain with diagrammatic illustration the stepwise project planning activities. (16)
12. a) Discuss the spiral software development life cycle model with diagrammatic illustration. What are the spiral model strengths ? What are the spiral model deficiencies ? When to use the spiral model ? Discuss. (16)  
(OR)
- b) Explain the steps in the COCOMO II effort estimation technique. (16)
13. a) i) Draw a network diagram representing the following logic.  
As the project starts, activities A and B can be performed concurrently. When A is finished, activities C and D can start. When B is finished, activities E and F can start. When activities D and E are finished, activity G can start. The project is complete when activities C, F and G are finished (8)  
ii) Appraise with an example Monte Carlo simulation. (8)  
(OR)
- b) Explain with an example the use of network techniques PERT and CPM in software project management. (16)
14. a) i) Scope and deliverables of software projects are changed frequently. This has severe implications on the projects. How can a project manager minimize their impact on the project ? (8)  
ii) Appraise the activities involved in software configuration management. (8)  
(OR)
- b) Explain with an example how the earned value chart depicts scheduled progress, actual cost and actual progress (earned value) to allow the determination of spending, schedule and time variances. (16)
15. a) Explain the Oldham-Hackman job characteristics model. (16)  
(OR)
- b) What is a team ? Discuss the types of team structures. (16)