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**B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APR / MAY 2013**

**COMPUTER SCIENCE AND ENGINEERING BRANCH**

**SEVENTH SEMESTER**

**CS 9402 – SOFTWARE PROJECT MANAGEMENT**

(Regulation 2008)

**Time : 3 Hours**

**Max. Marks 100**

**Answer All Questions**

**PART-A (10 x 2 = 20 Marks)**

1. What are the steps involved in identification of project scope and objectives?
2. Differentiate between verification and validation.
3. How will you find the present value of future cash flow?
4. Calculate the ROI for a software project development, where the net profit is 30,000 and the total investment is 300,000.
5. List the types of activity float?
6. Define dangle.
7. Difference between ball charts and slip chart.
8. Define COTS.
9. What is critical path?
10. What is job enrichment?

**PART-B (16 x 5 = 80 Marks)**

- 11 (i) You are an IT manager in a private medical clinic that specialises in the treatment of heart related illness. As there is no off-the-shelf products in the market and no expertise available inhouse, it has been decided to outsource the development work. You have been given the responsibility of selecting the suitable organization to develop the system. What are the various attributes and criteria you would use in selecting the suitable vendor? **(8)**
- (ii) Discuss briefly about the different phases of Project Life Cycle. **(8)**

12 (a)

- (i) What are the 3 goals of a project and the interaction among them? (4)
- (ii) Explain how a project can be evaluated against strategic, technical and economic criteria. (8)
- (iii) Briefly discuss about the stake holder's influence over the time in a project cycle. (4)

(OR)

(b)

- (i) How is the decision tree helpful in risk analysis? (4)
- (ii) Explain V-process model (6)
- (iii) Describe how cost- benefit evaluation techniques can be used in project selection. (6)

13 (a)

- (i) What is function point analysis and how it is used for project estimation? (8)
- (ii) How the discounted cash flow method of project selection gives better decision than net profit or return on investment? (8)

(OR)

(b)

- (i) All projects contain risk arising from interactions between objectives (what must happen) and uncertainty (what might happen). Describe the different types of risk that occur on projects, how these risks can be identified and managed. (10)
- (ii) Explain forward pass and backward pass. (6)

14 (a)

- (i) You are a PM for a software project and during the previous review; it was found that the project is running behind target. How will you get the project back to the target? (6)
- (ii) List down the various diagrams that could be used to present the progress of the project (4)
- (iii) Write short notes on Earned Value Analysis. (6)

(OR)

(b)

- (i) Briefly discuss about various stages in contract placement (8)
- (ii) Assume that you are a PM for a Software Project. There is requirement for a piece of software required for your project and you have decided to get in from a supplier that was successful in the tender. What are the items that you would include as part of this contract? (8)

15 (a)

- (i) Discuss about Fixed Price contract. (4)
- (ii) Explain how new staff can be selected and inducted into a project. (4)
- (iii) Write short notes on Maslow's and Herzberg's motivation theories. (8)

(OR)

(b)

- (i) What is Baseline Budget? (4)
- (ii) What is the purpose of monitoring and controlling process? What are the items/activities you will monitor? (4)
- (iii) Consider the following example on cost and resources: (8)

The 4<sup>th</sup> month of a seven-month project has just been completed and actual figures (in person-months) are given in the table below

Month	Budgeted Effort	Value Completed	Actual Effort
1	11	5	7
2	15	7	8
3	20	11	12
4	20	20	20
5	16		
6	13		
7	5		

- a. What percentage of work should be completed at this stage, according to the original plan?
- b. What percentage of work is actually complete?
- c. What percentage of the total budget has been expended?
- d. What do these figures tell us about the project?