BICSE-009

B.Tech. – VIEP – COMPUTER SCIENCE AND
ENGINEERING (BTCSVI)

Term-End Examination

June, 2016

00416

BICSE-009 : SOFTWARE PROJECT MANAGEMENT (SPM)

Time : 3 hours *Maximum Marks : 70*

Note : *Answer any **seven** questions. All questions carry*
equal marks.

1. (a) In reference to project planning, discuss the
         terms 'milestones' and 'deliverables'. *5*

    (b) What do you mean by 'stakeholders' ? Who
         may be the stakeholders in a software
         project ? *5*

2. (a) What is 'testing' ? Discuss about the
         various types of testing in brief. *5*

    (b) Explain the different stages in contract
         placement. *5*

3. (a) Differentiate between ball charts and slip charts. 5

(b) Create a project control cycle for a library management system. 5

4. (a) Identify the data that you would collect to ensure that, during execution of the project, activities are going according to the plan. 5

(b) Explain how a project can be evaluated against strategic, technical and economic criteria. 5

5. (a) Describe how cost-benefit evaluation techniques can be used to choose the best among competing project proposals. 5

(b) Discuss the typical product life cycle cash flows in project development. 5

6. (a) What do you understand by the term 'critical path' ? Also explain 'Dummy Variable'. 5

(b) Differentiate between Process WBS and Product WBS. 5

7. Is the critical path important if any one person is working on a software project ? Discuss the concept of PERT/CPM in defining an optimal schedule. *10*

8. Develop your own metrics for correctness, maintainability, integrity and usability of software. What is Statistical Quality Assurance (SQA) ? *10*

9. What is meant by 'error tracking' ? Why is error tracking an excellent management practice ? *10*

10. What do you understand by Earned value analysis ? Discuss the following progress indicators : *10*

   (a) Cost Variance (CV)

   (b) Schedule Performance Index (SPI)

   (c) Cost Performance Index (CPI)

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