B.TECH. COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

December, 2013

BICSE-009 : SOFTWARE PROJECT MANAGEMENT (SPM)

Time : 3 hours   *Maximum Marks : 70*

Note :   *Attempt **any seven** questions. Each question carry **equal** marks.*

1.   What is meant by software process maturity? **10** Discuss about the software maturity framework in detail.

2.   (a)   Write the engineering artifacts available at **5** the life cycle architecture milestone.
     (b)   Discuss about the Milestone Chart in detail. **5**

3.   What is meant by software risk? How risks are **10** classified ? Discuss how risk management is done.

4.   (a)   Explain about various earned value **5** indicators.
     (b)   What are the important differences between **5** quality circle and review group ?

5.   Explain the process of critical path method on the **10** following PERT chart with requirement, coding and system test taking 4 weeks each and others taking 2 weeks each.

6. Write short notes on : 4x2.5=10
   (a) Change request management.
   (b) Cleanroom process.
   (c) Estimation methods.
   (d) Test strategies.

7. If you have access to project planning software 10
   investigate the extent to which it offers support
   for earned value analysis. If it does not so directly,
   investigate ways in which it would help you to
   generate a baseline budget (BCWS) & track the
   earned value (BCWP).

8. Discuss clearly about the different testing 10
   automation and testing tools.

9. (a) Write the conventional work breakdown 6
       structure.
   (b) What are the CMM levels? Explain. 4

10. (a) Write down the different software 5
        configuration items and tasks in detail.
    (b) Explain the significance of software baseline 5
        and also explain various types of baselines ?