



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 214567/214506

Roll No.

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## MCA

(SEM. V) (ODD SEM.) THEORY

EXAMINATION, 2014-15

### SOFTWARE PROJECT MANAGEMENT

Time : 3 Hours]

[Total Marks : 100

**Note :** Attempt all questions.

Make suitable assumption wherever necessary

1. Attempt any **Four** parts of the following:  $5 \times 4 = 20$ 
  - (a) Briefly describe SPM (Software Project Management) with its need and scope.
  - (b) What is Software Project Estimation? Briefly describe estimation methods.
  - (c) Explain GANTT chart with suitable sketch.
  - (d) What do you mean by term EVA (Earned Value Analysis)? Explain in brief.
  - (e) What is Validation process? Differentiate it with verification.
  - (f) What is software risk? How it is identified and controlled?
  
2. Attempt any **Two** parts of the following. -  $2 \times 10 = 20$ 
  - (a) Describe WBS (Work Breakdown Structure). Focus your attention on rules and methods to represent it with different types of WBS. Draw WBS for a Compiler

which is to be developed in C++ language.

- (b) What do you understand by the term "LIFE CYCLE" ? Elaborate different phases of project life cycle with suitable sketch.
- (c) What is project scheduling? Also discuss key objectives of project scheduling and terminology related to scheduling.
3. Attempt any **Two** parts of the following.  $2 \times 10 = 20$
- (a) Explain the various dimensions of project controlling and monitoring with suitable diagram. Also discuss some controlling parameters with suitable example.
- (b) Discuss various Earned Value Indicators with suitable sketch and example.
- (c) Discuss Software Technical Review using walk-through, inspections and desk check method with one suitable example.
4. Attempt any **Two** parts of the following.  $2 \times 10 = 20$
- (a) Explain SEI Capability maturity model with its different levels showing relevance of each level by suitable sketch.
- (b) Define Software Quality. Discuss various direct and indirect factors affecting to it. Also describe the seven major software Quality Assurance activities with suitable example.
- (c) Describe principles of software testing, different types of test plans, its various types and levels of testing with

suitable diagram.

5. Attempt any two parts of the following.  $2 \times 10 = 20$
- (a) Describe cost benefit analysis. Also focus on cost estimates and benefits estimates by suitable example.
- (b) Describe Risk Management Process. Explain the risk Identification, Controlling and Management with suitable example.
- (c) What do you understand by Software Configuration Management? Also discuss its role and task of SCM in brief by one suitable example.