

Paper Code: MCA E33	Roll No.													
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M. C. A.
(SEM V) ODD SEMESTER EXAMINATION 2015-16
Software Project Management (Elective-III)

Time: 3 Hrs.

MM: 100

Note: Attempt ALL questions. Make necessary assumptions if necessary.

Q1: Answer any TWO parts: (10X2=20)

- (a) What do you mean by software project management? Discuss various phases of software project management cycle.
- (b) Define software project planning. What are the objectives of project plan? Discuss the various types of software project management plans? Explain.
- (c) Why software estimation is essential? List various estimation models used for software estimation? Describe any one of these in detail.

Q2: Answer any TWO parts: (10X2=20)

- (a) What do you understand by work breakdown structure? What are the various types of work breakdown structures? Discuss the functions of WBS.
- (b) What is the significance of project schedule? Explain. Describe various scheduling techniques.
- (c) Write short note on the following: (i) Personnel organization. (ii) Write short note on PERT.

Q3: Answer any TWO parts: (10X2=20)

- (a) What do you mean by earned value analysis and earned value indicators? Discuss various earned value indicators with examples.
- (b) (i) What do you understand by software project monitoring and control? Explain.
(ii) Discuss pair programming.
- (c) Explain the following with examples:
 - (i) Error tracking.
 - (ii) Code reviews.

Q4: Answer any TWO parts:

(10X2=20)

- (a) Discuss the SEI capability maturity model in detail.
- (b) What do you mean by the software testing? What the various objectives of software testing? Explain various testing principles.
- (c) Explain the following with examples:
 - a. Statistical quality assurance.
 - b. Program verification and validation.

Q5: Answer any TWO parts:

(10X2=20)

- (a) Discuss the risk management process in detail. e.
- (b) What do you mean by Software Configuration Management (SCM)? What are the various SCM activities? Also discuss the concept of baselines.
- (c) Write short notes on the following:
 - (i) CASE tools.
 - (ii) Version control.