

MCA (Dual Degree)
(SEM-VI) THEORY EXAMINATION 2017-18
SOFTWARE PROJECT MANAGEMENT

Time: 3 Hours

Total Marks: 100

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

- 1. Attempt all questions in brief. 2 x 10 = 20**
- a. Why software project management is needed?
 - b. List any four key characteristics of a project.
 - c. Write down the various stages of project development life cycle.
 - d. What is a critical path? Explain with example.
 - e. Briefly explain the concept of pair programming.
 - f. What do you understand by cost performance index?
 - g. Define software quality assurance.
 - h. What are the attributes of a good test case?
 - i. What do you mean by Baseline budget?
 - j. Briefly explain any two risks associated with project management.

SECTION B

- 2. Attempt any three of the following: 10 x 3 = 30**
- a. Discuss problems associated with software project planning.
 - b. What is Work Breakdown Structure (WBS)? Explain the types of WBS.
 - c. What do you mean by software review? Discuss various types of software reviews in detail.
 - d. Define quality. Discuss the various measures of software quality.
 - e. Describe the risk management process.

SECTION C

- 3. Attempt any one part of the following: 10 x 1 = 10**
- (a) Describe various software project estimation methods.
 - (b) What do you mean by software project plan? Discuss.
- 4. Attempt any one part of the following: 10 x 1 = 10**
- (a) What is the use of Gantt chart in allocation of resources? Explain.
 - (b) Differentiate between PERT and CPM. Discuss steps involved in the construction of a PERT chart.
- 5. Attempt any one part of the following: 10 x 1 = 10**
- (a) What is earned value system? Describe any two earned value indicators with suitable example.
 - (b) What is project schedule? Describe the principle of project scheduling.

- 6. Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) Explain various maturity levels of Capability Maturity Model (CMM).
 - (b) What are the objectives of software testing? Explain issues to be considered in software testing and maintenance.
- 7. Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) What is the purpose of cost benefit evaluation? Explain any two cost benefit evaluation techniques.
 - (b) What do you understand by risk identification? Explain different methods of risk identification.

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