

**M. SC. (Computer Science) SEM – II (Choice Based Credit & Grade System) : WINTER - 2018**  
**SUBJECT: ELECTIVE – (C) SOFTWARE PROJECT MANAGEMENT**

Day : Monday  
Date : 15/10/2018

**W-2018-1051**

Time : 03.00 PM TO 06.00 PM  
Max. Marks: 60.

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate full marks.
  - 3) Draw neat labeled diagrams **WHEREVER** necessary.
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**Q.1** Describe COCOMO in detail. Also state equations to calculate effort and schedule. **(15)**

**OR**

Elaborate spiral model used for project development cycle.

**Q.2** A) Answer any **ONE** of the following: **(08)**

- i) Discuss the conventional work breakdown structure issues.
- ii) Explain any two SEI CMM levels.

**B)** Answer any **ONE** of the following: **(07)**

- i) Explain how to estimate the size of the software.
- ii) Elaborate PERT and CPM techniques.

**Q.3** Answer any **THREE** of the following: **(15)**

- a) What are various open source tools used for testing?
- b) Discuss the activities in software project management in brief.
- c) What is meant by quality function deployment?
- d) Explain the structure of development plan.
- e) Describe different types of risk to be considered in project planning.

**Q.4** Write short notes on any **THREE** of the following: **(15)**

- a) Role of project manager
- b) Requirement analysis
- c) Scheduling
- d) Portfolio management
- e) Quality assurance.

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