

FACULTY OF INFORMATICS

MCA II – Year I - Semester (Supplementary) Examination, January / February 2015

Subject: Software Engineering

Time: 3 Hours

Max. Marks: 80

Not e: Answer one question from each unit. All questions carry equal marks

Unit - I

- 1 (a) Explain any two software development process models with examples.
(b) Define software and explain how cost quality and schedule are related to software problem?

OR

- 2 (a) Write the importance of project management process.
(b) Explain about waterfall model and component based software Engineering.

Unit - II

- 3 (a) Explain characteristics and component of an SRS.
(b) Explain component and connector view of software Architecture.

OR

- 4 (a) What is the need of SRS and Explain data flow modeling.
(b) Describe about Architecture views.

Unit - III

- 5 (a) Explain project scheduling and staffing with examples.
(b) Write about function-oriented design.

OR

- 6 (a) Describe various approaches to Quality management.
(b) Explain object oriented design concepts.

Unit - IV

- 7 (a) Explain coding principles and how to manage evolving code.
(b) Explain unit-testing.

OR

- 8 (a) Write about metrics for coding and testing.
(b) Explain Basic path testing with examples.

Unit - V

- 9 (a) Compare and contrast reverse engineering and forward engineering.
(b) Explain about SPI frame works.

OR

- 10 (a) what is Re-engineering, Explain business process Re-engineering and specify key advantages of Re-engineering.
(b) Write short notes on the following
(i) SPI process (ii) SPI returns on investment