

Roll No.

67163

M.C.A. 4th Semester

Examination-May, 2013

(w.e.f. May, 2013)

Software Engineering

Paper-MCA-403

Time : 3 hours

Max. Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Attempt any **five** questions. All questions carry equal marks.

Unit-I

1. (a) What is Software engineering ? What are the major principles of Software engineering that are considered while developing software ? Describe.
- (b) Compare waterfall model and spiral model of Software Development.

2. (a) What do you understand by project scheduling ? Also enumerate the activities involved in project scheduling.
- (b) Explain elaborately the various strategies and steps involved in risk management.

Unit-II

3. (a) What is software project estimation ? What are its benefits ? Explain.
- (b) What is software metrics ? Discuss non-functional requirements along with its types as applied on a system.
4. (a) What are software metrics ? Discuss the effect of software metrics on software productivity.
- (b) Explain features of COCOMO model.

Unit-III

5. (a) What is Software Design ? What are the principles of software design ? Also discuss the importance of software design in software engineering.
- (b) Differentiate between cohesion and coupling. And also discuss the importance of cohesion and coupling in software modularity.

6. (a) What is software testing ? How is testing important in software life cycle ? Discuss the objectives of software testing.

Unit-IV

7. What is Software Maintenance ? Explain its types. Also discuss the various problems during maintenance. Describe some solutions to these problems.
8. (a) What is Software Quality Assurance ? What are its goals ? Explain. 8
- (b) What is software documentation ? Explain in detail.
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