

2153003

Roll No. ....

67173

M.C.A. 4th Sem. (with new notes)

M.M. 80

Examination-May, 2017

SOFTWARE ENGINEERING (NEW)

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 five questions in all by selecting Q. No. 1 (which is compulsory) and one question each from every Unit. All questions carry equal marks.

1. Attempt all questions : [8x2 = 16]

(a) What is Software Process? What are the characteristics of software process ? Explain.

(b) What is mean y Software Testing ?  
How is testi nportant in software  
lifecycle ? I ss the objectives of  
software testi [8]

7. Differentiate betwe ie following:

(a) Good design : ad design [5]

(b) Module Coup and Cohesion [6]

(c) Testing and I ging [5]

U V

8. (a) What is Sol e Quality Assurance  
(SQA) ? What the main activities in  
SQA plan ? are these ensured ?  
Justify. [8]

(b) What is soft maintenance ? What  
are its ty ? Illustrate their  
importance a laborate. [8]

9. Explain the follow

(a) Software Con ition Management [8]

(b) Software Doc tation. [8]

https://www.ndupapers.com

- (b) What are different types of requirement state their relevance.
- (c) What is the 'software evolution' ? Comment.
- (d) What are Information Flow Metrics ? How are they helpful ? Discuss.
- (e) What are ways of minimizing software maintenance cost ?
- (f) What are code walkthroughs ? Outline their relevance.
- (g) What are specification languages ? What are their objectives ? Discuss.
- (h) What is 'Software Retirement' ? Elaborate them.

<https://www.ndupapers.com>

#### UNIT-I

2. (a) What is Software Engineering ? Discuss the principles of software engineering as well as the essential characteristics of a well engineered software product. [8]
- (b) What are Software Development Risks ? What are the activities related to risk management ? Discuss. [8]

67173-1000-(P-4)(Q-9)(17)

3. (a) What are Software Lifecycle Models ? Discuss the essence of software lifecycle models. [7]
- (b) What is Software Project Planning ? Outline the goals of software project planning as well as the activities involved in software project planning. [9]

#### UNIT-II

4. (a) What are Software Project Estimation Models ? How are these relevant in software development ? Justify. [8]
- (b) What is SRS document ? How is it populated ? State the relevance of specification languages. [8]
5. Differentiate between the following:
- (a) Function Points and Token Metrics [6]
- (b) McCabe's Cyclomatic and Knots Metrics [5]
- (c) Functional and Non-functional requirements [5]

#### UNIT-III

6. (a) What are CASE tools ? Discuss various types of CASE tools indicating their respective usefulness. [8]

67173-1000-(P-4)(Q-9)(17)

( 3 )

[ Turn Over