

Roll No. ....

**67194**

**MCA 4th Semester CBCS Scheme  
w.e.f. 2017-18  
Examination – May, 2018**

**SOFTWARE ENGINEERING**

**Paper : 17MCA34DA2**

*Time : Three Hours ]*

*[ Maximum 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 examination.*

*Note : Question No. 1 is compulsory. Attempt four more questions selecting one question from each Unit. All questions carry equal marks.*

**1. Answer the following questions briefly :  $8 \times 2 = 16$**

- (a) What are merits of water fall model ?
- (b) Discuss Project planning.
- (c) Explain role of cohesion in software design.

- (d) Describe Unit Testing and its uses.
- (e) Explain CASE tools briefly.
- (f) Discuss Top-Down design with an example.
- (g) Differentiate between software verification and validation.
- (h) What is software Evolution ?

#### UNIT - I

- 2. (a) What is Spiral model ? How is it useful and used ? Discuss with examples. 10
- (b) Discuss uses and advantages of Software Project Management with examples. 6

3. Explain the following briefly with suitable examples :

- (a) Prototype Model and its merits and demerits. 8
- (b) Risk Management and its activities. 8

## UNIT – II

4. (a) What is Function Point Analysis ? How is it useful and used ? Explain with suitable examples. 8
- (b) Explain uses of COCOMO model with an example in detail. 8
5. Describe the following with examples :
- (a) IEEE standards and CCC for SRS. 8
- (b) Uses of Halstead Software Science Metrics. 8

## UNIT – III

6. (a) What is testing ? How is it used and useful ? Explain levels of testing with suitable examples. 6
- (b) Differentiate between Function-Oriented and Object-Oriented Design with examples. 10
7. Explain the following with examples :
- (a) White Box Testing and its uses. 8
- (b) Software Design Principles and their advantages. 8

## UNIT – IV

8. (a) What is Software maintenance ? How is it useful ?  
Discuss its types with suitable examples. 10
- (b) Explain good coding style with examples. 6
9. Explain the following with examples :
- (a) Software Re-Engineering and its merits. 8
- (b) Software quality attributes. 8
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