



AF-3581

**M.Sc. (Final)**  
**Term End Examination, 2017-18**

## COMPUTER SCIENCE

## Paper - II

## Software Engineering

*Time : Three Hours] [Maximum Marks : 100*  
*[Minimum Pass Marks : 36*

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

1. What are the various process models? Explain each of them. Quote an example of a software project for which prototype model is more suitable and how?
2. Enumerate the quality attributes of good software and briefly define them. Explain software characteristics.

( 2 )

3. Define software design process. What are the characteristics of a good design ? Also write down the basic design principles that help in navigating the design process.
4. Describe with a suitable example COCOMO model to estimate cost of a software project.
5. Explain the following :
  - (a) Validation testing
  - (b) SQA
6. What do you understand by system testing ? What are the different kinds of system testing that are usually performed on large software products ?
7. Elaborate the term 'Client-Server software development' with suitable diagram.
8. Explain the following :
  - (a) Customer's role in testing
  - (b) Testing with virtual computer
9. When you know software engineering concepts, what is the need to learn software re-engineering concepts ?

( 3 )

10. Explain the following :

- (a) Major and minor milestones
- (b) Life-cycle expectations in software project management

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