



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
- _____