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.

197_BSP_(3)   *(Turn Over)*

(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?

197_BSP_(3)   (*Continued*)

(3)

10. Explain the following :

(a) Major and minor milestones

(b) Life-cycle expectations in software project management

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