

FACULTY OF SCIENCE

M.Sc. (I Semester) (Computer Science) Examination, April/May 2005

SOFTWARE ENGINEERING

Paper—1·4

Time : Three Hours]

[Maximum Marks : 100

SECTION—A

(Marks : 8×5=40)

Answer **ALL** questions. Each question carries *Five (5)* marks.

1. Define Software Engineering by explaining the hidden factors in brief.
2. Write in brief about project structure.
3. Outline in brief about various Cost factors which influence the Software Cost.
4. Explain Delphi-Cost estimation in brief.
5. Explain different verification validation techniques.
6. Explain stress test in brief.
7. Distinguish between Software faults and errors.
8. Outline the development activities which enhance Software maintainability.

SECTION—B

(Marks : 4×15=60)

Answer **ALL** questions. Each question carries *Fifteen (15)* marks.

9. (a) Discuss in detail about Productivity and Quality factors.

OR

- (b) Discuss in detail about different phases involved in the software life cycle model development.

10. (a) Describe the Format specification techniques in conjunction with SRS.

OR

(b) Explain :

- (i) Top down and bottom up approaches,
- (ii) Expert Judgement and
- (iii) State Oriented Notations.

11. (a) Explain in detail about Fundamental design concepts of software design.

**OR**

(b) Define coupling and cohesion. Explain various types of them in detail, with reference to software structural design.

12. (a) Explain the building blocks of CASE tools and discuss its reliability.

**OR**

(b) Discuss management aspects of software maintenance tools and techniques.

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