

This question paper contains 2 printed pages]

**V—340—2017**

**FACULTY OF SCIENCE**

**B.Sc. (Third Year) (Fifth Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2017**

**COMPUTER SCIENCE**

**Paper XII**

**(Software Engineering)**

**(Monday, 11-12-2017)**

**Time : 10.00 a.m. to 12.00 noon**

*Time—Two Hours*

*Maximum Marks—40*

*N.B. :— (i) Attempt All questions.*

*(ii) Assume suitable data, if necessary.*

1. Attempt any *four* of the following : 8
  - (a) Explain the concept of Qualitative and Quantitative Requirements.
  - (b) Define the following terms :
    - (i) Portability
    - (ii) Efficiency.
  - (c) Enlist the content of a detailed design specification.
  - (d) Explain the concept of information hiding.
  - (e) What is software maintenance ?
  - (f) Explain 'Expert Judgment' technique.
2. Attempt any *two* of the following : 8
  - (a) Explain the project size categories.
  - (b) Explain Algorithmic cost model.
  - (c) Explain Structured analysis and design technique.
3. Attempt any *two* of the following : 8
  - (a) Explain the concept of coupling.
  - (b) Explain types of source code tests.
  - (c) What is static analysis ?

P.T.O.

4. Attempt any *one* of the following : 8
- (a) Explain in detail various quality and productivity factors.
  - (b) Describe the managerial aspects of software maintenance.
5. Write short notes on (any *two*) : 8
- (a) Importance of software engineering
  - (b) Delphi cost estimation
  - (c) Structured design
  - (d) Type checking.