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R—343—2017

FACULTY OF SCIENCE

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

APRIL/MAY, 2017

COMPUTER SCIENCE

Paper XII

(Software Engineering)

(Tuesday, 2-5-2017)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Attempt All questions.

(ii) Assume suitable data, if necessary.

1. Answer the following (any *four*) : 8

(a) Explain the concept of qualitative and quantitative goals.

(b) Define the terms :

(i) Robustness

(ii) Reliability.

(c) Enlist the content of an architectural design specification.

(d) Explain the concept of modularity.

(e) What is verification and validation ?

(f) Explain the 'Expert Judgment' Technique.

2. Attempt any *two* of the following : 8

(a) Explain in brief the steps in planning a software project.

(b) Explain the software cost factors.

(c) Explain structured system analysis.

P.T.O.

3. Attempt any *two* of the following : 8
- (a) Explain the concept of cohesion.
 - (b) Explain Walkthroughs and Inspections.
 - (c) Explain the concept of Symbolic Execution.
4. Attempt any *one* of the following : 8
- (a) Explain in detail planning an organizational structure.
 - (b) Explain any *four* design notations.
5. Write short notes on (any *two*) : 8
- (a) Importance of Software Engineering
 - (b) Work Break Down Structures
 - (c) Stepwise Refinement
 - (d) System Testing.