

This question paper contains 2 printed pages]

BF—360—2016

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2016

COMPUTER SCIENCE

Paper XII

(Software Engineering)

(Wednesday, 30-11-2016)

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) Define the terms 'Software' and 'Software Engineering'.

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

(c) Define the terms :

(i) Robustness

(ii) Efficiency.

(d) What is verification and validation ?

(e) Enlist the content of detailed design specification.

(f) Explain 'Expert Judgement' technique.

2. Attempt any two of the following : 8

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

(b) What is software requirements specification ? Explain it in brief.

(c) Explain algorithmic cost model.

3. Attempt any two of the following : 8

(a) Explain the concept of coupling.

P.T.O.

- (b) Explain walkthrough and inspections.
- (c) What is static analysis ?
- 4. Attempt any *one* of the following : 8
 - (a) Explain in detail planning an organizational structure.
 - (b) Describe how to enhance maintainability during development.
- 5. Write short notes on any *two* of the following : 8
 - (i) Delphi cost estimation
 - (ii) Unit testing
 - (iii) Type checking
 - (iv) Staffing level estimation.