

**B.SC. (I. T.) SEM. - IV (CBCS - 2015 COURSE) : WINTER -
2017**

SUBJECT : SOFTWARE ENGINEERING

Day : **Friday**
Date : **22/12/2017**

W-2017-0852

Time : **02.30 PM TO 05.30 PM**
Max. Marks : 60

N. B. :

- 1) Attempt **ANY SIX** questions out of **EIGHT**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.

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- Q. 1** a) What is Software Process? Explain different stages of Software Process Life Cycle. (05)
- b) Explain different characteristics of a system. (05)
- Q. 2** a) What is Requirement Engineering? What are the different stages in Requirement Engineering? (05)
- b) Explain design principle of software engineering. (05)
- Q. 3** a) Explain feasibility study with its types. (05)
- b) Write a short note on IEEE standards for writing an SRS. (05)
- Q. 4** a) Explain black box and white box testing with an example. (05)
- b) What is testing? Why is it necessary? Justify your answer with an example. (05)
- Q. 5** a) What is a Data Flow Diagram? What are the objectives of DFD? (05)
- b) What is UML? What are the different components of UML? (05)
- Q. 6** a) What does associations, aggregation and composition in a class diagram mean? Justify your answer with example. (05)
- b) What is software maintenance? What are the different types of software maintenance? (05)
- Q. 7** a) What is fact finding? What are the different techniques involved in fact finding? (05)
- b) Mention some software analysis and design tools? Explain any one of them in detail. (05)
- Q. 8** Write short notes on: (10)
- a) Bottom up and Top down Design
- b) Project Risk Mitigation

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