

**B. TECH. SEM - III (INF. TECH.) (2014 COURSE) (CBCS) :**  
**WINTER - 2017**  
**SUBJECT: FUNDAMENTALS OF SOFTWARE ENGINEERING**

Day : **Friday**  
Date : **12/01/2018**

**W-2017-2041**

Time: **10.00 AM TO 01.00 PM**  
Max. Marks: 60

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Assume data suitable if **NECESSARY**.
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**Q.1** What are the different categories of software myths? Explain the myths and realities of any one category. **(10)**

**OR**

With the help of a neat diagram explain component based process model.

**Q.2** What is an analysis model? State and explain the principles of analysis modeling. **(10)**

**OR**

Define requirement engineering. List and explain the steps in process of requirement engineering.

**Q.3** Draw and explain Level 0, Level 1 and Level 2 DFD for library management system. **(10)**

**OR**

Define use cases. Justify the significance of use cases in analysis modelling.

**Q.4** What is a DFD? How is it mapped into an architecture? **(10)**

**OR**

State and explain the elements of a design model.

**Q.5** Define change control. List and explain the fundamental sources of change. **(10)**

**OR**

What is a software configuration? Explain the elements of configuration management system.

**Q.6** State the importance of test plan. Enlist and explain the steps in test planning. **(10)**

**OR**

Define "test case". Explain the process of developing test cases.

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