

B. Tech. Sem - III (Inf. Tech.) (2014 COURSE) (CBCS) : WINTER - 2018

SUBJECT: FUNDAMENTALS OF SOFTWARE ENGINEERING

Day: Friday
Date: 23/11/2018

W-2018-2305

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

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non-programmable **CALCULATOR** is allowed.

Q.1 Compare and contrast spiral model with incremental model with suitable diagram. (10)

OR

Q.1 Define software and software engineering. Explain software characteristics. (10)

Q.2 Describe design modeling principles. (10)

OR

Q.2 What is Computer Based System (CBS)? What are elements of CBS? (10)

Q.3 What is data modeling? Develop E-R Diagram for Library Management System. (10)

OR

Q.3 Explain use case Format used in scenario based modeling with suitable example. (10)

Q.4 Explain following design concepts with suitable example: (10)
i) Information hiding ii) Functional Independence

OR

Q.4 Describe data abstraction and procedure abstraction with suitable example. (10)

Q.5 How will Software Configuration Management (SCM) process make stream line by considering version control and change control? (10)

OR

Q.5 Write short note on: (10)
i) Configuration Audit
ii) Status Reporting

Q.6 List out and describe various software testing strategies for black box testing and White box testing. (10)

OR

Q.6 What is debugging? How it different from testing? Briefly explain debugging process. (10)