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)**

Q3. 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)**

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