M. TECH. –I (COMPUTER ENGINEERING) (CBCS – 2015 COURSE)
: WINTER - 2017
SUBJECT : ADVANCED SOFTWARE ENGINEERING

Day : **Wednesday** Time : **11.00 AM TO 02.00 PM**
Date : **17/01/2018** **W-2017-2777** Max. Marks : 60

N.B.:
1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Answers to both the sections should be written in the **SEPARATE** answer books.

SECTION – I

Q.1 Which software development life cycle model will be suitable for development of Online Music Store software for GaaNaa.com? Why? Discuss various phases of this model with proper activities. **[10]**

OR

Discuss various building blocks to be used for development e-Billing Software for Medical Shop with Agile development methodology with their pros and cons.

Q.2 Develop SRS for typical Virus removal and protection software in IEEE format. What are advantages and disadvantages of SRS methodology? **[10]**

OR

You are developing online health care management software for typical IT Company employees. This is to be tested with black box testing methods. Discuss its pros and cons. Design any two test cases to test this software.

Q.3 Write short notes on: **[10]**

a) SPI **b)** Change Management

OR

Write short notes on:

a) CMM standards **b)** Release Management

SECTION – II

Q.4 Apply Golden Rules of User Interface Design and design four user interfaces necessary to develop customer review system for Online Shopping Mall. **[10]**

OR

How will you apply forward and reverse engineering approach for development of digitized maps required in GPS tracking system? What are its limitations?

Q.5 Discuss component based software engineering approach. Accident Alert system is to be developed with this approach. Explain this approach with necessary design patterns. **[10]**

OR

What is service oriented software engineering? Discuss SoSE approach to be used in development Cyber theft detection and control system. How will you reduce development time with this approach?

Q.6 What is software Quality? Develop SQA plan for development of Auto SMS Alert system for students and Faculty of University. **[10]**

OR

What is software review? Apply FTR during process of development of Metro train information management system software with at least four reviews.

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