

B.Tech. SEM -IV (Computer) 2014 Course (CBCS) : WINTER - 2018

SUBJECT: FUNDAMENTALS OF SOFTWARE ENGINEERING

Day: Friday
Date: 16/11/2018

W-2018-2340

Time: 02.30 PM TO 05.30 PM
Max Marks. 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks
 - 3) Draw the labeled diagrams **WHEREVER** necessary
 - 4) Assume suitable data if necessary.
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Q.1 List various software process paradigms. Explain how both waterfall model and prototyping model can be accommodated in the spiral process model. **(10)**

OR

Q.1 Describe in detail the type of situations where iterative enhancement model might lead to difficulties. Explain prototyping model in detail. **(10)**

Q.2 Explain in detail the organization of Software Requirement Specification (SRS) and highlight the importance of each subsection in SRS. **(10)**

OR

Q.2 Consider an online railway reservation system, which allows the user to select route, book / cancel tickets using net banking / credit/debit cards. This site also maintains the history of the passengers. For the above system list and draw the usecase scenario, and model the above specification using data flow diagram. **(10)**

Q.3 Develop an architectural and component level design for online shopping system. **(10)**

OR

Q.3 Explain in detail the various design concepts. **(10)**

Q.4 List and explain different types of testing carried out during the testing phase. **(10)**

OR

Q.4 Discuss in detail about the various integration and debugging strategies followed in SDLC. **(10)**

Q.5 What is Software Configuration Management (SCM)? Explain its objectives. Elaborate the SCM Process. **(10)**

OR

Q.5 What is software Quality assurance? Discuss in detail with example how the reliability changes over the lifetime of a software product and a hardware product. **(10)**

Q.6 Explain in detail about the risk management in a software development life cycle. **(10)**

OR

Q.6 Discuss about COCOMO II model for software estimation. **(10)**

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