V- SEM CSE/IT/2019(W)

CST-502-SOFTWARE ENGINEERING

Full Marks: 80   Time : 3 Hours

Answer any FIVE Questions including Q No. 1 & 2

Figures in the right hand margin indicates marks

1.	Answer ALL the questions.	2x10
(a)	Define software product.	
(b)	Why PERT charts are used?	
(c)	What is critical path?	
(d)	Why spiral model is known as a meta model?	
(e)	Define verification and validation.	
(f)	Mention the various activities project planning consists of.	
(g)	What is the use of structured analysis?	
(h)	Why Work Breakdown Structure is used?	
(i)	What is LOC?	
(j)	Define software quality. Mention some of the associated quality factors.	
2.	Answer any SIX questions.	5X6
(I)	Explain different types project estimation techniques.	
(II)	What is COCOMO? Explain the different types of COCOMO models used in the field of software development.	
(III)	What is debugging? Explain the different standard approaches and guidelines used in debugging process.	
(IV)	What is cohesion? What are the different classes of cohesion? Describe.	
(V)	What is UID? Explain the different types of User Interfaces used.	
(VI)	Discuss the various ways in which a software organization can be structured?	
(VII)	Discuss the various configuration management activities.	
3.	Explain classical waterfall model used in software development.	10
4.	Define DFD. Explain the different symbols used in DFD. Write the steps to develop the DFD model of a system with an example.	10
5.	Explain the white box testing approach used to test the software product.	10
6.	Define SRS document. Explain its organization and state the characteristics of good and bad SRS documents.	10
7.	What is software reliability? Explain the different types of software reliability matrix used.	10