B.Tech. VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination June, 2013

BICS-005: SOFTWARE ENGINEERING

Time	e : 3 h	ours Maximum Marks : 7	Maximum Marks: 70		
Note	n	ttempt any seven questions. All questions carry equanarks. All the questions are to be answered in englishing.			
1.	(a)	Describe the various software development models in brief.	5		
	(b)	What is system engineering? What kind of tasks are required to be followed by the system engineer?	5		
2.	(a)	What is SDLC? Explain the various steps of SDLC in detail.	8		
	(b)	How software is different from program?	2		
3.	(a)	What are project metrices? What is their importance, describe giving examples?	6		
	(b)	What is prototype model? How it is different from spiral model?	4		

- 4. (a) What is function point approach of 8 software estimation? How can we compute the function points? Explain by giving a suitable example.
 - (b) Why initial investigation is needed? Explain in brief.

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- 5. (a) Explain various software specification attributes in detail.
 - (b) What is a data dictionary? What is the 4 importance of having a good data dictionary?
- 6. (a) How can design reviews improve software designs? How can design reviews help in educating operators, users, clients, analyst and testers? Explain in detail.
 - (b) What are the various design tools? Explain 2 any one of them.
- 7. (a) What is project scheduling? Explain its role 5 in software project management.
 - (b) What is modular design? When is a module called more cohisive? Explain with the help of example.

8.	(a)	What is software maintenance? Explain various activities which are part of software maintenance.	
	(b)	What is system testing? How unit testing is different from integration testing? Explain.	
9.	(a)	Differentiate the following giving examples. (i) Faut (ii) Failure (iii) Error	6
	(b)	Also describe their relation to each other. What is security testing? What are the various parameter which we have to taken in consideration during security testing?	
10.	Write	e short notes on :	2.5x4
	(a)	COCOMO Model	
	(b)	Waterfall Model	
	(c)	Software Crisis	
	(d)	Performance Testing	