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

Term-End Examination December, 2012

BICS-005 : SOFTWARE ENGINEERING			
Time: 3 hours Maximum Ma			: 70
Note: Attempt any seven questions. All questions carry equal marks. Answer all questions in English language only.			
1.	(a)	"Software does not wear out". Justify this statement.	4
	(b)	How programming product is different from a program? Is software a programming product? Explain by giving suitable examples.	6
2.	(a)	What is software analysis? What are the various steps required during the analysis process.	7
	(b)	Explain the required skills of a project Manager.	3
3.	(a)	Differenciate between the waterfall model and spiral model. Describe their relative merits and demerits.	7
	(b)	What are software metrices? Explain.	3

- How important do you think good software 4. (a) 4 architecture is to good detail design? What is coupling? How it differ from (b) 6 cohesion? Explain with the help of examples. 5. (a) Draw a DFD to show the working of a 6 library up to 1st level. Also draw and explain the context diagram. (b) How logical design is different from physical 4 design? Explain with examples. What is testing? Explain black-box testing 6. (a) 5 and white-box testing. (b) Differentiate between alpha testing and beta 5 testing describing their relative advantages and uses. 7. What is a test case? What are its (a) 5 components? Explain with the help of suitable example. What is SRS? Explain the properties of (b) 5 good SRS. 8. (a) What is software design? Explain various
 - all categories of COCOMO model in detail.

software design steps.

(b)

What is constructive cost model? Explain

4

6

- 9. (a) Make boundary value test suit for the systemhaving the following requirements.
 - (i) 30 < = X < = 60
 - (ii) 50<=Y<=100
 - (b) What is risk containment? How does it differ from risk management?
- 10. Write short notes on:

4x2.5=10

- (a) Debugging
- (b) Feasibility study
- (c) Software crises
- (d) Protect scheduling