

ICSE CBSE IGCSE ALEVEL IB IIT IGNOU TYbcom

ADCA / MCA (II Yr)

Term-End Examination June, 2008

CS-10 : SOFTWARE ENGINEERING

Time: 3 hours

Maximum Marks : 75

Question number 1 is compulsory. Answer any Note: three questions from the rest.

- Suppose we wish to computerize the activities of 1. (a) study centres, which offer various programmes of the university. The activities are as follows:
 - Forwarding the counselor's biodata to Regional (i) Centre
 - Schedule the classes (both theory and practical) (ii)
 - (iii) Identify Practical Centres
 - (iv) Collect TMA's from students and get it evaluated by the counselors
 - Student's enquiry (v)
 - (vi) Despatch of Award lists of TMA's to University

For the above mentioned system,

- Develop SRS.
- (2) Draw DFDs upto second level.
- Identify the software modules and their (3)functions.

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		(4) Propose a testing strategy for any two software modules mentioned in (3) above.	
		Make assumptions, wherever necessary. 4×4=	=16
	(b)	List at least five important qualities of software product and process.	5
	(c)	What is Agility? List all the principles for those who want to achieve agility.	5
	(d)	With the help of an example, explain the significance of the PERT chart.	4
2.	(a)	What is a design method ? What are its five components ?	8
	(b)	What is 4GL? Explain at least three areas which are impacted by the advent of 4GLs.	7
3.	(a)	"Independence is measured using two qualitative criteria: Cohesion and Coupling." Explain both of them in detail.	8
	(b)	Explain how version control combines procedures and tools to manage different versions of configuration objects that are created during the s/w engineering process.	7
4.	(a)	The requirements engineering process is accomplished through the execution of functions like: Inception, Elicitation, Elaboration, Negotiation, Specification, Validation and Management. Explain the role and significance of each of the functions.	7
	(b)	Explain the purpose of each of the system tests given below:	8



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- (i) Recovery testing
- (ii) Security testing
- (iii) Stress testing
- (iv) Performance testing
- 5. Write short notes on:
 - (i) The Incremental Model
 - (ii) Dynamic Systems Development Method (DSDM)
 - (iii) Basis Path Testing

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