

ICSE CBSE IGCSE ALEVEL IB IIT IGNOU TYbcom

Bachelor in Information Technology (BIT)

Term-End Examination

December, 2007

CSI-08: QUALITY MANAGEMENT PRINCIPLES

Tin	ne : 3	Hours Maximum Marks: 75		
Note:		All questions from Section A are compulsory . Answer any three questions from Section B.		
	*	SECTION A		
1.	(a)	Who are the important stakeholders in software projects? Identify them.		
	(b)	What is meant by rapid prototyping in software quality? How is it useful in software development?		
	(c)	Explain various steps involved in software quality assurance.		
	(d)	List any eight causes of errors in software.		
	(e)	What is formal technical review? List various objectives of formal technical review.		
2.	Defi	ne the following terms in the context of software quality: $1 \times 10 = 10$		
	(i)	Auditability		
	(ii)	Consistency		
	(iii)	Structuredness		
	(iv)	Traceability		
	(v)	Verifiability		
	(vi)	Robustness		
	(vii)	Compatibility		
	(viii) Predictability		
	(ix)	Modularity		
	(x)	Understandability		



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SECTION B

Answer any three questions from this section.

		그 사람들이 하는 이 이 이 이 회사를 받았다면 그 회에 가는 그 없는 것이 하는 지수를 가지 않는데 그리고 하는데 그리고 그리고 하는데 그리고 그리고 하는데 그리고 하는데 그리고 그리고 하는데 그리고	
3.	(a)	Why is it necessary to plan software projects? What are the broad activities that encompass software project planning? What are the different levels at which software planning is carried out?	10
	(b)	Explain any two types of maintenance techniques in software project development.	5
4.	(a)	Explain the significance and the roles of the following charts:	7
•		(i) GANTT (ii) PERT	
	(b)	Name the different software production process models. Bring out a comparison of these process models.	8
5.	(a)	Define software reliability. Discuss any one software reliability model.	6
	(b)	There are four important dimensions of software projects — people, process, product and technology. Discuss the implications of each of these four project dimensions for the success of software project.	9
6.	(a)	What is the difference between SEI CMM standards and ISO 9000-2000 standards?	7
	(b)	Elaborate various activities performed in software testing and implementation phases.	8
7.	(a)	What are the five elements that are useful in the estimation of function points for software products?	8
	(b)	Mention the importance of software project estimation in the context of software project management.	7