BCA-403(N)

B. C. A. (Fourth Semester) EXAMINATION, May, 2013

(New Course)

Paper Third

SOFTWARE ENGINEERING

Tir	ne : 7	hree .	Hours]	[Maximum Max	rks : 75	
No			A is compulsory. B and one question	Attempt seven question from Section C.	as from	
			Section	-A		
1,	(a)		at is Software Eng nitions of S. E.	incering ? Give at le	ast two	
	(b)	Wha	at is meant by prev	entive maintenance ?	1	
	(c)	Defi	ine the term modul	arity. What is cohesion	? 2	
	(d)	Discuss Data Flow Diagram (DFD) and draw a D. F. D.				
			consider the proble ords in an input fil	em of determining the re-	number 5	
2.	Cho	ose th	ne correct alternativ	es.	1 each	
	-(a)	Prot	otype model is usefu	for the development of		
		(i)	Small system			
		(ii)	Large system			
		(iii)	Small and large sy	stem		
		(iv)	None of these			
				_	-	

3

- 3 activity and not merely as View software development as a value added business
- Technical activity
- 3 Social activity
- Social and technical activity
- None of these
- 0 Data flow diagram were invented by:
- 8

- (a) Decision tables are divided into quadrants.
- 3
- Four
- 0 completion of procedural design 15 carried out after the
- Data design
- 3
- Data coupling
- 0
- Stamp coupling

- Jarry constant line Three Two One None of these Barry constant line Larry constant line

- 0 Architectural design
- Interface design
- All of these
- weakest coupling that is most desirable is:
- Control coupling
- Message coupling

- Configuration issued that need to be considered when developing web applications include :
- Соптен
- Ξ Cost
- Pepole
- (iv) All of these
- E activity the software configuration audit is conducted When software configuration management is a formal by the :
- 3 Development team
- \equiv Quality assurance group
- Senior managers
- (iv) Testing specialists
- 3 The code efficiency is directly related to the efficiency
- (i) Algorithm
- Program
- Module
- 3 None of these
- Major software quality attributes:

9

- Correctness
- Reliability
- 1 Efficiency
- All of these

Section - B

products of each step? What are different steps in S. D. L. C.? What are the end

H-10

4.	Describe in detail the different characteristics of a software.				
5.	Discuss in detail the relative advantages of formal and informal requirement specification.				
6.	What is the difference between flowchart and structure chart?				
7.	What are various elements of analysis and design models? How is the analysis model translated into design model?				
8.	Define module coupling and explain different types of coupling in detail.				
9.	List the reasons of software crisis.				
10.	Why is the cost of software maintenance so high? Illustrate.				
	Section - C				
11.	(a) Give suitable reasons to justify the following statements: (i) Software is not manufactured but engineered (ii) Software does not wear out (b) Describe ISO 9000 certification and the process to get ISO 9000 certification.				
12.	 (a) Discuss the spirol model and justify that this model in-co-operates good features of almost every other model i. e. water fall model, prototype model etc. 7 				
	(b) Discuss the coupling and cohesion concepts? How are these concepts used to determine strength of software design?				
	402 (N)				