Seat No.	:	

XU-131

April-2013

T.Y.M.Sc.

Five Years M.Sc. (CA & IT) Integrated (K.S.) Software Engineering

Tin	ne: 3	Hours]	[Max. Marks: 100
1.	Atte	empt any four :	20
	(a)	Justify 'software doesn't "wear out".	
	(b)	Define:	
		(i) Software Engineering	
		(ii) Umbrella Activities	
	(c)	Write a note on "Water Fall Model"	
	(d)	Write a note on "Testing Principles".	
	(e)	Write a note on "RMMM".	
2.	Atte	empt any four :	20
	(a)	Write a brief note on "Hatley-Pirbhai Modeling".	
	(b)	Write a brief note on "Quality Function Deployment".	
	(c)	Briefly explain with figure "Elements of the analysis model".	
	(d)	Explain Behavioural Model with suitable examples.	
	(e)	Explain with figure "Modularity & Software Cost".	
3.	Atte	empt any four :	20
	(a)	What is a "well-formed" design class?	
	(b)	What is Software Architecture ? Why is Architecture important ?	,
	(c)	Explain with figure "Defect Amplification & Removal".	
	(d)	Explain any one golden rule of user interface.	
	(e)	Writ a brief note on "The overall strategy for software testing".	

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4. Attempt all the following:
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(a) Write a brief note on: "System testing"

5

(b) Write a brief note on: "Measures, Metrix & Indicators".

- 5
- (c) Develop an optimized flow graph, calculate cyclomatic complexily & derive test cases for the following pseudo code ${f 10}$

```
up-60 = true; sum = 0;

for i to no-of-sub do

If marks [i] < 70 then up-60 = false;

end if;

sum = sum + marks [i];

end for;

avg = sum / no-of-sub;

It avg > 80 & up-60 = true

then printf ("Distinction")
```

5. Attempt any **four**:

20

- (a) Writ a note on "Web Engineering Content Design".
- (b) Write a note on "Web App testing process" with a figure.
- (c) Write a note on "Four P's: people, product, process & project".
- (d) Write a note on "the Make/Buy Decision".
- (e) What should we do when management demands that we make a deadline that is impossible?

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