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3 He	ours / 7	70 M	larks	Sea	t No.				
Instructions – (1) All Questions are Compulsory.									
		(2) An	swer each	next mai	n Questi	on on	a nev	v page	
			strate your essary.	answers	with ne	at ske	tches	wherev	rer
(4) Assume suitable data, if necessary.									
	(5) Use of Non-programmable Electronic Pocket Calculator is permissible.								
	(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.								
	((7) Pre	ferably, wi	rite the a	nswers in	n sequ	ential	order.	
								Ν	larks
1.	Attempt any FIVE of the following:								10
a)	Enlist and explain software characteristics (any two).								
b)	Define software on engineering.								
c)	State need of software requirement specification (SRS).								
d)	Define Reactive Risk strategies.								
e)	Specify fo	llowing	g cost direc	ctives of	cocomo:				

- (i) Product attributes (any two)
- (ii) Hardware attributes (any two).
- f) Differentiate between Software Quality Management and Software Quality Assurance (any two points).
- g) Define Software Quality Assurance.

2.

Attempt any <u>THREE</u> of the following: a) Explain Software Engineering as layered technology approach. b) Explain with example Decision table.

- c) Explain following elements of management spectrum:
 - (i) People
 - (ii) Process
 - (iii) Product
 - (iv) Project
- d) List and explain basic principles of project scheduling.

3. Attempt any THREE of the following:

- a) Distinguish between perspective process model and agile process model.
- b) Describe any four principles of communication for software engineering.
- c) Draw proper labeled "LEVEL I Data Flow Diagram" (DFD) for student attendance system.
- d) State importance of "Function Point (FP)" and "Lines of codes (LOC)" in concerned with project estimation.

4. Attempt any THREE of the following:

- a) Describe extreme programming with proper diagram
- b) List and explain any "four core principles" of software engineering.
- c) Explain RMMM plan with example.
- d) Explain any one project cost estimation approach.
- e) Prepare time line chart for Library Managements System (five days a week) Consider phases of SDLC.

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- a) Enlist Requirement Gathering and Analysis for web based project for registering candidates for contest (any six points).
- b) Differentiate between White box and Black box testing (any six points).
- c) Describe Co-Como II model for evaluating size of software project with any three parameters in detail.

6. Attempt any <u>TWO</u> of the following:

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- a) Draw and explain Transition diagram from requirement model to design model.
- b) Describe CMMI. Give significance of each level.
- c) Identify and enlist requirement for given modules of employee management software:
 - (i) Employee detail
 - (ii) Employee salary
 - (iii) Employee performance.