22413

12 3		-	70	Marks	Seat	No.							
In	istru	ctions –	(1)	All Questions	s are Comp	ulsory.							—
			(2)	Answer each	next main	Questi	on c	n a	a ne	ew	pag	e.	
			(3)	Illustrate your necessary.	r answer w	rith nea	ut sk	etch	nes	wh	erev	/er	
			(4)	Figures to the	e right indi	icate fu	ıll m	ark	s.				
			(5)	Assume suita	ble data, if	neces	sary.						
			(6)	Mobile Phone Communication Examination	on devices	•							
												Mar	'ks
1.		Attemp	t any	<u>FIVE</u> of the	following:								10
	a)	State th	e cha	racteristics of	Software E	Enginee	ring.						
	b)	Define	:	_									
		i) Sc	oftware	9									
)	C	.									

- ii) Software Engineering
- c) State the characteristics of SRS.
- d) List the project cost Estimation Approaches.
- e) Define risk and list any two types of risk.
- f) Define Software Quality Control and Quality Assurance.
- g) List the phases of Software Quality Assurance.

22413

		Μ	larks
2.		Attempt any THREE of the following:	12
	a)	State and describe any four types of Software.	
	b)	Explain structured flowchart with suitable example.	
	c)	Describe 4P's of management spectrum.	
	d)	Describe critical path method with suitable example.	
3.		Attempt any THREE of the following:	12
	a)	Distinguish between waterfall model and spiral model.	
	b)	Describe any four Software analysis modeling principles.	
	c)	Draw DFD for Railway Reservation Management System for level 0 and level 1.	
	d)	Explain line of code metrics for size estimation.	
4.		Attempt any <u>THREE</u> of the following:	12
	a)	Explain Dynamic Systems Development Method (DSDM).	
	b)	State software engineering practices and its importance.	
	c)	State and explain the component of Risk Management.	
	d)	Describe following project cost estimation approaches :-	
		i) Heuristic	
		ii) Empirical	
	e)	Prepare macro time line chart for 15 days of college management system (5 days a week) consider phases of SDLC.	
5.		Attempt any TWO of the following:	12
	a)	Sketch use-case diagram for Library management with minimum four use cases and two actors.	

- b) Differentiate between white box testing and black box testing.
- c) Describe a Cocomo and Cocomo-II models.

2

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

- a) Recognize requirement for following modules of hospital management software
 - i) Customer module
 - ii) Administrator module
 - iii) Account module
- b) Draw neat labelled diagram of translation of requirement model in to design model and explain it with details.
- c) Explain CMMI Techniques with its level.