Seat No.:	Enrolment No.

Subject Name: Fundamentals Of Software Development

Subject Code: 3341603

Instructions:

Time: 10:30 AM TO 01:00 PM

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING – SEMESTER –4 (NEW)- EXAMINATION –WINTER-2022

	1. 2. 3. 4. 5.	Attempt all questions. Make Suitable assumptions wherever necessary. Figures to the right indicate full marks. Use of simple calculators and non-programmable scientific calculators are permitted English version is authentic.	d .
Q.1		Answer any seven out of ten. દશમાંથી કોઇપણ સાતના જવાબ આપો.	14
	1. Գ.	What is PERT? PERT શું છે?	
	2. ૨.		
	3. 3.	What is validation? Validation શું છે?	
	4. ४.	What is System Software? System Software શું છે?	
	5. પ.	1	
	6. ૬.	What is cardinality? Cardinality શું છે?	
	7. 9.	Define organic embedded system. Organic embedded system ની વ્યાખ્યા આપો.	
	8. ८.	Define Risk. Risk ની વ્યાખ્યા આપો.	
	9. と.		
	10. ૧૦		
Q.2 પ્રશ્ન. ર	(a) (અ)		03 03
		OR	
	(a) (અ)	. 5	03 03
	(b) (બ)		03 03
	(b)	OR Explain Prototype model.	03

Date: 15-12-2022

Total Marks: 70

	(બ)	Prototype model સમજાવો.		03
	(c)	Explain RAD model.		04
	(٤)	RAD model સમજાવો		०४
			OR	
	(c)	Explain incremental model.		04
	(٤)	incremental model સમજાવો		०४
	(d)	Justify: software doesn't wear out.		04
	(3)	સમજાવો: સોફ્ટવેર નાંશવંત થતુ નથી.		०४
			OR	
	(d)	Explain the need of Software Engine	_	04
	(3)	Software Engineering ની જરૂરિયાત સગ	મજાવો.	०४
Q.3	(a)	What is Functional Requirements?		03
પ્રશ્ન. 3	(અ)	Functional Requirements સમજાવો.		03
	()	•	OR	
	(a)	List out Application of Software En		03
	(અ)	Software Engineering ની એપ્લીકેશન ત		03
	(b)	Discuss Coupling.		03
	(બ)	Coupling ની ચર્ચા કરો.		03
			OR	
	(b)	Explain Cohesion.		03
	(બ)	Cohesion સમજાવો.		٥3
	(c)	Explain code inspection.		04
	(ક)	Code Inspection સમજાવો.		०४
			OR	
	(c)	Explain DFD.		04
	(5)	DFD સમજાવો.		०४
	(d)	Explain data dictionary in detail.		04
	(3)	data dictionary વિસ્તારમાં સમજાવો.		०४
	(1)	P. 1.	OR	0.4
	(d)	Explain use-case diagram.		04
	(3)	use-case diagram સમજાવો.		०४
Q.4	(a)	Explain components of activity diag	gram.	03
પ્રશ્ન. ૪	(અ)	Activity diagram નાં components સમ	જાવો.	03
			OR	
	(a)	Explain Class Diagram.		03
	(અ)	Class Diagram સમજાવો.		03
	(b)	Define SRS and write characteristic	_	04
	(બ)	SRS ની વ્યાખ્યા આપો અને SRS ની લાક્ષણ	ગ઼ીકતા લખો.	०४
			OR	
	(b)	Explain White Box Testing.		04
	(બ)	White Box Testing સમજાવો.		०४
	(c)	Write a short note on risk managem	ent.	07
	(ક)	Risk management પર ટૂંકનોંધ લખો.		09

Q.5	(a)	Explain E-R Diagram.	04
પ્રશ્ન. પ	(અ)	E-R Diagram સમજાવો.	०४
	(b)	Explain two types of software documentation.	04
	(બ)	software documentation નાં બે ટાઈપ સમજાવો.	०४
	(c)	Define role of System Analyst.	03
	(٤)	System Analyst નો રોલ જણાવો.	03
	(d)	Explain Work break down structure.	03
	(3)	Work break down structure સમજાવો.	03
