

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – IV • EXAMINATION – SUMMER- 2016

Subject Code: 341603**Date: 24 - 05 - 2016****Subject Name: Software Engineering****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of programmable & Communication aids are strictly prohibited.
5. Use of only simple calculator is permitted in Mathematics.
6. English version is authentic.

Q.1	(a)	List the characteristics of a good software requirement specification document.	07
પ્રશ્ન. ૧	અ	સારા software requirement specification document ની વિશેષતાઓ જણાવો	07
	(b)	What is feasibility study and what activities does it entail.	0૭
	બ	Feasibility study શું છે અને એમાં કઈ activities હોય છે.	0૭
Q.2	(a)	What is data flow diagram and explain different symbols of data flow diagrams.	07
પ્રશ્ન. ૨	અ	Data flow diagram શું છે અને તેના જુદા જુદા symbols સમજાવો.	07
	(b)	Explain with figure the spiral model of software development.	0૭
	બ	આકૃતિ સાથે spiral model of software development સમજાવો.	0૭
OR			
	(b)	What is the function and role of a system analyst ?	07
	બ	System analyst નો function અને role શું છે ?	
Q.3	(a)	State and explain the different types of software.	07
પ્રશ્ન. ૩	અ	જુદા જુદા સોફ્ટવેર સમજાવો.	07
	(b)	Compare function oriented matrices with size oriented matrices.	0૭
	બ	સર્ખાવો function oriented matrices ને size oriented matrices સાથે	0૭
OR			
Q.3	(a)	Define the following Data dictionary Reusability ER diagram	07
પ્રશ્ન. ૩	અ	વ્યાખ્યા આપો Data dictionary Reusability ER diagram	07
	(b)	Explain the RAD model of software development.	0૭
	બ	RAD model of software development સમજાવો	0૭
Q.4	(a)	Explain white box testing	07
પ્રશ્ન. ૪	અ	White box testing સમજાવો	07
	(b)	Explain the different types of risk a software project may encounter.	0૭

	બ	Software project ને કેટલી ટાઇપ ના risk નો સામનો કરવો પડે છે.	૦૭
		OR	
Q.4	(a)	Write a short note on Risk mitigation monitoring management plan.	07
પ્રશ્ન. ૪	અ	Risk mitigation monitoring management plan પર ટુંકિ નોંધ લખો	07
	(b)	Explain black box testing	૦૭
	બ	Black box testing સમજાવો	૦૭
Q.5	(a)	Write a short notes on unit testing and integration testing	07
પ્રશ્ન. ૫	અ	Unit testing અને integration testing પર ટુંકિ નોંધ લખો	07
	(b)	Explain time line chart , Gantt chart and PERT	૦૭
	બ	Line chart , Gantt chart અને PERT સમજાવો	૦૭
		OR	
Q.5	(a)	Explain cohesion and coupling	07
પ્રશ્ન. ૫	અ	Cohesion અને coupling સમજાવો	07
	(b)	Write a short note on Empirical estimation model COCOMO	૦૭
	બ	Empirical estimation model COCOMO પર ટુંકિ નોંધ લખો	૦૭
