

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**DIPLOMA ENGINEERING – SEMESTER – IV • EXAMINATION – SUMMER- 2017**

**Subject Code: 341603****Date: 05 - 05 -2017****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. Each question carry equal marks (14 marks)

<b>Q.1</b>	(a)	Write a short note on Spiral Model.	<b>07</b>
<b>પ્રશ્ન. ૧</b>	અ	Spiral Model પર ટૂકનોંધ લખો.	<b>07</b>
	(b)	Explain Data Flow Diagram using suitable example.	<b>0૭</b>
	બ	DFD ઉદાહરણ આપી સમજાવો.	<b>0૭</b>
<b>Q.2</b>	(a)	Write a short note on SQA.	<b>07</b>
<b>પ્રશ્ન. ૨</b>	અ	SQA પર ટૂકનોંધ લખો.	<b>07</b>
	(b)	Explain Black Box Testing.	<b>0૭</b>
	બ	Black Box Testing સમજાવો.	<b>0૭</b>
<b>OR</b>			
	(b)	Explain White Box Testing.	<b>07</b>
	બ	White Box Testing સમજાવો.	
<b>Q.3</b>	(a)	What is COCOMO?	<b>07</b>
<b>પ્રશ્ન. ૩</b>	અ	COCOMO સમજાવો.	<b>07</b>
	(b)	What is Defect Amplification Model?	<b>0૭</b>
	બ	Defect Amplification Model સમજાવો.	<b>0૭</b>
<b>OR</b>			
<b>Q.3</b>	(a)	Briefly explain Resources in terms of Software Engineering.	<b>07</b>
<b>પ્રશ્ન. ૩</b>	અ	Software Engineering નાં Resources સમજાવો.	<b>07</b>
	(b)	What is Software Reliability?	<b>0૭</b>
	બ	Software Reliability સમજાવો.	<b>0૭</b>
<b>Q.4</b>	(a)	What is Software? Discuss Characteristics of Software.	<b>07</b>
<b>પ્રશ્ન. ૪</b>	અ	Software તથા તેની Characteristics સમજાવો.	<b>07</b>
	(b)	Explain RAD Model.	<b>0૭</b>
	બ	RAD Model સમજાવો.	<b>0૭</b>
<b>OR</b>			
<b>Q.4</b>	(a)	Discuss different types of Software.	<b>07</b>
<b>પ્રશ્ન. ૪</b>	અ	જુદા-જુદા પ્રકારનાં સોફ્ટવેર સમજાવો.	<b>07</b>

	(b) Explain Incremental Model.	09
	બ Incremental Model સમજાવો.	09
<b>Q.5</b>	(a) Discuss different Risks involve in Software Engineering.	<b>07</b>
<b>પ્રશ્ન. ૫</b>	અ જુદા-જુદા પ્રકારનાં Risks સમજાવો.	<b>07</b>
	(b) Explain Feasibility Analysis.	09
	બ Feasibility Analysis સમજાવો.	09
	OR	
<b>Q.5</b>	(a) Discuss RMMM Plan.	<b>07</b>
<b>પ્રશ્ન. ૫</b>	અ RMMM Plan સમજાવો.	<b>07</b>
	(b) Explain Scheduling using time line chart.	09
	બ time line chart ની મદદ થી Scheduling સમજાવો.	09

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