Total	No. of Questions : 12]	SEAT No. :	
P39	[5462]-685	[Total No. of Pages : 2	
	M.E. (Computer Engine	ering)	
	FAULT TOLERANT SYS	<i>G</i> /	
	(2017 Pattern) (610101) (Sen	nester-III)	
Time	: 3 Hours]	[Max. Marks : 50	
Instr	uctions to the candidates:	•	
	1) Attempt Q.No.1 or Q.No.2, Q.No.3 or Q.No.4, Q.	No.5 ro Q.No.6, Q.No.7 or Q.No.8,	
	Q.No.9 or Q.No.10, Q.No.11 or Q.No.12.		
	Neat diagrams must be drawn wherever necessFigures to the right indicate full marks.	ary.	
	4) Assume suitable data if necessary.		
	7) 215sume sumble unit if necessary.		
Q1)	Define Fault, Error and Failure. List different p and explain with an example how fault may phases.	· ·	
	OR	5	
Q2)	Enlist and explain different Analytical Technique reliability of the system?	ies available for computing the	
<i>Q3</i>)	List different Fault Simulation Algorithms. Ex	plain any two fault simulation	
2-)	algorithms in detail.	[8]	
	OR	0.	
O 1)			
Q4)	Explain combinational and sequential fault diag	gnosis techniques. [8]	
(05)	Define an n-dimensional Hypercube. Explain how	y Hamming difference hetween	

Q5) Define an n-dimensional Hypercube. Explain how Hamming difference between two addresses is calculated. Draw 4-cube architecture. [9]

OR

- Q6) Explain Depth-first Search Approach for Fault-Tolerant Routing Algorithms in Hypercube.[9]
- Q7) Describe general architecture of the Hyper Torus Network with diagram.Describe how fault coverage percentage is calculated. [8]

OR

Q8)	What is Block Shift Network? Explain the following connection methods for the connections on dimensions in Block Shift Network. [8]				
	a)	Concurrent connection.			
	b)	Sequential connection.			
	c)	Parallel connection.			
Q9)	Writ	e and explain reliability expression of [8	8]		
	a)	Token ring network.			
	b)	By-pass switch network.			
		OR			
Q10)Expl	lain Daisy chain and Double loop architecture with diagram. [8	3]		
Q 11,)List	types of failures. Describe each of type of failure with an example. [9	[י		
		OR			
Q12) Explain Byzantine Agreement Problem with suitable example. [9]					
		A. A			