

Sardar Patel Institute of Technology Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India

(Autonomous College Affiliated to University of Mumbai)

Synoptic for Mid Semester Examination

September 2018

Max. Marks: 20 Class: B.E.

Duration: 60 Min Semester: VII

Course Code: CPC701

Branch: Computer Engineering

Name of the Course: Digital Signal Processing Instruction:

(1) All questions are compulsory

(2) Draw neat diagrams

(3) Assume suitable data if necessary

Q.1	i)D-6 :	Max	
4.1	i)Defining the unit sample signal = 0.5M	Mai	rks
	Graphical representation/sketch of the unit sample signal = 0.5M ii)Defining the unit step signal = 1M Graphical representation/sketch of the unit step signal = 1M iii)Defining the unit ramp signal = 1M Graphical representation/sketch of the unit ramp signal = 1M	05	C
Q.2	1 Plate:		
	1. Plotting given sequences = 1M (0.5 each) 2. Listing the steps = 1M (P. 1)		
	Summation) Summation Summation in (Folding, Shifting, Multiplication and Signature 1) Summation in (Folding, Shifting, Shift		CC
	4. Finding the convolution sum $y(n) = 2.5M$ value $0.5M$)		
2.3	Definition of diagratus		
	Definition of discrete time system with block diagram-[1M] Each example carries 2 marks.	0.5	
	y'=[1M].	05	CO
	y'' = [1M]		
	* OB		
	" OR		
	Correct Steps for linearity [134]		
1 :	Correct Steps for linearity-[1M] Each example carries 2 month	05	CO2
1 3-	Correct Steps for linearity-[1M] Each example carries 2 month	05	CO2
E	Correct Steps for linearity-[1M] Each example carries 2 marks. Cach correct step carries 1 mark.	05	CO2
E 1.	Correct Steps for linearity–[1M] Each example carries 2 marks. Cach correct step carries 1 mark. Equation / Matrix of DEE	05	CO2
1. 2.	Correct Steps for linearity-[1M] Each example carries 2 marks. Each correct step carries 1 mark. Equation / Matrix of DFT = 1M		CO2