## Paper / Subject Code: 42106 / Elective- II 3)Image Processing

Total Marks: '

B.E. SEM VII / COMP / CREDIT BASE/ MAY 2019 / 23.05.2019
(3 hours)

N.B.	1. Quest	ion No.	1 is co	mpulsor	У				
	2. Atten	pt any t	hree o	ut of rer	naining				
	3. Assume suitable data if necessary and justify the assumptions								
	4. Figure	es to the	right	indicate	full ma	rks			
0.1.	Answer	the foll	owing					20 M	
	What is Shape Number?								
b.									
c.									
d.		ould be it planes		lect on the	he histo	gram if	we set to zero, the high	ier	
Q.2.a	i) Phyc ii) Inter	re the di hovisual pixel re ling redu	l redun dundar	dancies ncy	f redunc	dancies	in an image? Explain	10 M	
b.		Chain ode rota			nple and	d show t	hat how first difference	e makes 10 M	
Q.3.a	Using the Butterfly diagram, compute Hadamard transform for $X(n)=\{1,2,3,4,1,2,1,2\}$							10 M	
Ub.	Genera	te the D	FT Tra	nsform	of the g	iven Im	age	10 M	
		2	1 2	1					
		1	2 3	2					
		2	3 4	3					
		1	2 3	2					
Q.4.a	Ci	. In fact or man					qualize it twice, commo	ent 10 M	
Q.4.a	Civen	mstogi	am, w	пат парр	ens who	en we e	quanze it twice, commi	2HC 10 M	
		Grey levels	0	1	2	3			
		No of pixels	70	20	7	3			
b.	Explair	Pagior	hasad	saaman	tation v	with an a	, wamula	10 M	

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	(a, a, a, b, b, c, c, c, c, c, d, d, d, d, d, d, d, d, e, e, e, e, f, f '	10.11
b	Explain Hough Transform with suitable example	10 M
Q.6	Write short notes on (Any two)	20 M
	a) Holomorphic Filtering b) Hit and miss transform	

d) Color models

