Seat No:	- 1
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ENTATION ENGINEERING ER/DECEMBER-2012	
AGE PROCESSING	
TOTAL MARKS: -	70
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on it is used? Explain image	
and histogram equalization. zation transformation function. n when image is 1) Dark 2)	
the malexit (f)	12
ple in medical field. Give the	
and their remedial solution. call and rods can give overall oution of these receptors on the	
State of the state	11
d filtering? Explain the complete ring and derive the necessary	
ection and edge magnitude? ors with their implementation.	
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ah-hoost filtering.	

GANPAT UNIVERSIT

B.TECH SEM. VII BIOMEDICAL & INSTRUME REGULAR EXAMINATION NOVEMBE BME-702: BIOLOGICAL DIGITAL IM

	BME-702: BIOLOGICAL DIGITAL IMAGE PROCESSING	
	BME-702: BIOLOGICATION TOTAL MARKS: - 7	0
	TOTAL MARKS.	
TIME: - 3	HOURS answer of each section in separate answer sneet.	
INSTRUC	3 HOURS CTION: - 1. Write the answer of each section in separate answer sheet. 2. Figure to the right indicates full marks.	
	3. Assume suitable data if necessary.	
	IT THE CHARLES AND CHEMOTICS SAY.	
	SECTION-I	2
	(a) What is gray level Re-mapping? When it is used? Explain image	
Que-1	(a) What is gray level Re-mapping? When it is about	
	(b) Give the difference between histogram and histogram equalization transformation function. Give the condition for histogram equalization transformation function. The histogram concentration when image is 1) Dark 2)	
	Give the condition for histogram equalitation when image is 1) Dark 2)	
	Give the difference of the difference of the condition for histogram equalization transformation (and the condition for histogram equalization transformation (b) and the condition of the condition of the condition (c) and the condition of the condition (c) and the	
	Deight 3) Low Collust 4) 2228	12
		124
Que-1	(a) Explain image subtraction with example in medical field. Give the	
	(a) Explain image subtraction with example in includer remedial solution. problem associated with this technique and their remedial solution. problem associated with this technique and rods can give overall	
	problem associated with this technique and their remediar solution problem associated with this technique and their remediar solution. (b) Why cones can resolve the fine detail and rods can give overall why cones can resolve the distribution of these receptors on the	
	(b) Why cones can resolve the fine detail and rods can give the vision? With diagram give the distribution of these receptors on the	
	C - at equippe	11
	A Complete	
Que-2	What is the general approach of spatial filtering? Explain the necessary	
	machanism (1) Spatial advantage	
	and adde magnitude:	
	What do you mean by edge, edge direction and edge many with their implementation.	
		44
	OR	11
0	2 And High-hoost filtering.	
Que-		
	Give the working principle of 2010 clossing. Give the working principle of 2010 clossing. Give the working principle of 2010 clossing.	12
	C adga detection. Daptem	12
Que	and a second sec	
Que	(a) Enlist the fundamental steps in mage	
XA	detail. (b) Define image segmentation. Explain all types of intensity based image (b) Define image segmentation.	
	(b) Define image segmentation. Expensions the fundamentals	
	segmentation techniques.	
	(c) What do you mean by image compression: Explain the work of image compression with types of compression techniques.	
	of image compression	

SECTION-II

			14
Que-4	1	CANFAL DAYMAN CONTROL OF THE CONTROL	
	(a)	Explain Hit or Miss transform.	1
	(b)	Explain 3D image translation and rotation with suitable equations.	
		OR OR	12
Que-4		former flet Structuring Element	
	(a)	Explain gray scale morphology for non-flat Structuring Element	
	(b)	Explain wiener filter with suitable derivation	11
Que-5		All the Secretary and Secretary	
	(a)	Explain block diagram of frequency domain filtering	
	(b)	Explain types of noise models	
		OR	11
Que-5		1 A walaling mathed	
	(a)	Explain estimation of Degradation of image by modeling method.	
	(b)	Explain color intensity slicing	12
Que-6		1 de l'applications Also explain	
	(a)	Explain different color models and their applications Also explain	
		different displays	
	(b)	the stand nivel relationship Willi necessary	
		1141	
	(c)	1 in different transfer function for lowpass filter in frequency	
	(3)	domain	

END OF PAPER