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No. of pages: 1 page (2 faces).

Final Exam

Time Allowed: 2 Hours

Jun 3, 2024

## **Choose the correct answer: (45 Marks)**

1-) Let R represent a subset of pixels in an image.		
a) adjacent b) region	c) disjoint d) not	hing
2-) the regions that are not adjacent are said to be		
a) disjoint b) disconnect c) bo	th disjoint & disconnect d) not	hing
3-) What is defined by the total number of pixels		
a-) Area b-) Brightness	c-) Intensity d-) Per	rimeter
4-) is the principal factor, which helps	in determining an image's spatial resol	lution.
a-) Dynamic range b-) Quantization		
5-) What is the sum of all components of a normal		
a-) 1 b-) -1 c-) 0	d-) None of the above	
6-) expands the range of intensity le	evels in an image so that it spans the ide	eal full inte
range of the recording medium.		
a) Contrast stretching	b) brightness	
c) both contrasts stretching &brightness	d-) None of the above	
7-) 2D Fourier transform and its inverse are infinite	tely	
a-) aperiodic b-) periodic	c-) linear d-) non li	near
8-) The phase angle is represented by the formula		iicai
a-) sine(x/y) b-) arcsine(x/y)		
		)
<ul> <li>9-) What are the categories of digital image processing?</li> <li>a-) Image Enhancement</li> <li>b-) Image Classification and Analysis</li> <li>c-) Image Transformation</li> <li>d-) All of the mentioned</li> </ul>		
a-) Image Emancement b-)	All of the mentioned	
c-) Image Transformation d-)	All of the mentioned	
10-) Which of the following is the first and forem	ost step in Image Processing?	
<ul><li>a-) Image acquisition</li><li>b-) (</li><li>c-) Image enhancement</li><li>d-)</li></ul>	Segmentation	
c-) Image enhancement d-)	Image restoration	
11-) Approaches to image processing that work d		work in
	Inverse transformation	
c-) Transform domain	-) None of the Mentioned	
12-) From the concepts that must be understood v		
	rrelation& variance d-) None of the	ne above
13-) From the types of lowpass filters:		
a) Butterworth b) Gaussian c) both		thing
14-) The shape of a Butterworth filter is controlle		
a) filter order. b) ideal filter c) both to		ing
15-) For large values of this parameter, the Butter		
a) Ideal filter. b) Gaussian filter c	) Ideal filter & Gaussian filter d-	) Nothing
16-) Let S represent a subset of pixels in an image	. For any pixel p in S, the set of pixels t	hat are coni
to it in S is called a of S.		
a) connected b) connected component	c) connected set d) no	
17-) Let S represent a subset of pixels in an image	e. Two pixels p and q are said to be	in S it
exists a path between them consisting entirely of		
a) connected b) connected component	c) connected set d) no	thing
18-) Let S represent a subset of pixels in an imag		
connected, then S is called		*
a) connected b) connected component	c) connected set d) no	thing
19-) Which of the following operations is used in		_
discrete Fourier transformed function?		1
a-) Exponential Function	b-) Logarithmic Fun	ction
c-) Negative Function	d-) None of the above	
20-) In general, the log transformation can be rep		
$a$ -) $s = c.\log(1 - r)$	$\frac{b}{b} = c - \log(1 - r)$	