University of Mumbai

Examination 2020 under cluster 4 (PCE)

Program: TE EXTC Engineering
Curriculum Scheme: Rev2016
Examination: Third Year Semester VI
Course Code: ECC604 and Course Name: IPMV

Time: 1 hour Max. Marks: 50

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3009_R16_EXTC_VI_ECC604_QP4

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Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Cyan color is formed by addition of
Option A:	Red+Blue
Option B:	Red+Green
Option C:	Blue+Green
Option D:	White +Red
Q2.	One that is not the measuring substance of the image is
Option A:	radiance
Option B:	refraction
Option C:	illumination
Option D:	brightness
Q3.	Cone vision is called as a
Option A:	Photopic vision
Option B:	Dim light
Option C:	Scotopic vision
Option D:	Spatial vision
Q4.	The common example of 2D interpolation is image
Option A:	enhancement
Option B:	sharpening
Option C:	blurring

Option D:	resizing
Q5.	Aliasing as block like image components is called
Option A:	quantization
Option B:	convolution
Option C:	jaggies
Option D:	blurring
Q6.	The 4-point discrete Fourier Transform (DFT) of a discrete time sequence {1, 0, 2, 3} is
Option A:	[6, −2 + 2□, 2, −2 − 2□]
Option B:	[6, 2 + 2□, 6, 2 − 2□]
Option C:	[6, 1 − 3□, 2, 1 + 3□]
Option D:	[6, −1 + 3□, 0, −1 − 3□]
Q7.	Histogram Equalisation is mainly used for _____
Option A:	Image enhancement
Option B:	Blurring
Option C:	Contrast adjustment
Option D:	Brightness adjustment
Q8.	What is the full form for PDF, a fundamental descriptor of random variables i.e. gray values in an image?
Option A:	Pixel distribution function
Option B:	Portable document format
Option C:	Pel deriving function
Option D:	Probability density function
Q9.	The response of the smoothing linear spatial filter is/are _____
Option A:	Sum of image pixel in the neighborhood filter mask

Option B:	Difference of image in the neighborhood filter mask
Option C:	Product of pixel in the neighborhood filter mask
Option D:	Average of pixels in the neighborhood of filter mask
Q10.	Which of the following comes under the application of image blurring?
Option A:	Object detection
Option B:	Gross representation
Option C:	Object motion
Option D:	Image segmentation
Q11.	What is required to generate an M X N linear spatial filter?
Option A:	MN mask coefficients
Option B:	M+N coordinates
Option C:	MN spatial coefficients
Option D:	M-N coordinates
Q12.	Morphological closing of an image is-
Option A:	Erosion followed by Dilation
Option B:	Dilation followed by Dilation
Option C:	Dilation followed by Erosion
Option D:	Erosion followed by Erosion
Q13.	A spatial averaging filter in which all coefficients are equal is called -
Option A:	Square filter
Option B:	Zero filter
Option C:	Box filter
Option D:	Flat filter
Q14.	In geometric mean filters when alpha is equal to 1 then it works as -

Option A:	Notch filter
Option B:	Bandpass filter
Option C:	Inverse filter
Option D:	Weiner filter
Q15.	One that is not a type of a noise is-
Option A:	Rayleigh Noise
Option B:	Black Noise
Option C:	Gamma Noise
Option D:	Exponential noise
Q16.	Band reject filters are used when noise components are usually-
Option A:	Known
Option B:	unknown
Option C:	rejected
Option D:	taken
Q17.	Sobel Gradient is not that good for detection of
Option A:	Horizontal lines
Option B:	Vertical lines
Option C:	Diagonal lines
Option D:	Edges
Q18.	Threshold based segmentation is based on
Option A:	Number of clusters
Option B:	Clip level

Option C:	Number of regions
Option D:	No of Gray levels
Q19.	smoothness reduces the bricks of
Option A:	Pixels
Option B:	Constant Intesities
Option C:	Point pixels
Option D:	Edges
Q20.	First derivative are positive at points
Option A:	Ramp
Option B:	Step
Option C:	Roof
Option D:	Edges
Q21.	Gradient vector is also called as
Option A:	Edge based segmentation
Option B:	edge segment
Option C:	Edge pixel
Option D:	Edge normal
Q22.	How the distance between two shapes can be defined?
Option A:	Weighted sum of the shape
Option B:	Size of the shape
Option C:	Shape context
Option D:	Shape number
Q23.	Which technique turns the unique lines, patterns, and spots apparent in a person‘s skin into a mathematical space

Option A:	registration
Option B:	segmentation
Option C:	skin texture analysis
Option D:	image differencing
Q24.	What enables people to recognize people, animals and inanimate objects reliably?
Option A:	Speech
Option B:	Vision
Option C:	Hear
Option D:	Perception
Q25.	Textured inner region of the object produces
Option A:	good boundary extraction
Option B:	excellent boundary extraction
Option C:	good boundary deletion
Option D:	excellent boundary deletion

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	C
Q2.	B
Q3.	A
Q4	D
Q5	C
Q6	D
Q7	A
Q8.	D
Q9.	D
Q10.	B
Q11.	A
Q12.	C
Q13.	C
Q14.	C
Q15.	B

Q16.	A
Q17.	C
Q18.	B
Q19.	D
Q20.	D
Q21.	A
Q22.	A
Q23.	C
Q24.	B
Q25.	A