# Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - –Digital Image Processing
Course Code - BCA602A

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Answer all the questions. Each question carry one mark.


9.    1. In Which Field the image processing is most necessary?

*Mark only one oval.*

○ medicines

○ chemistry

○ neurobiology

○ chemicals

10. 2. Which of the following is related to Histogram Equalization?

*Mark only one oval.*

( ) Image enhancement

( ) Blurring

( ) Contrast adjustment

( ) None of these

11. 3. _____ can not be used to describe a region.

*Mark only one oval.*

( ) Mean and median of grey values

( ) Minimum and maximum of grey values

( ) Number of pixels alone

( ) Number of pixels above and below mean

12. 4. Slopes of parallel lines are ____.

*Mark only one oval.*

( ) Different

( ) Equal

( ) 0 degree

( ) None of these

13.   5. What is the first and foremost step in Image Processing?

*Mark only one oval.*

◯ Image Processing

◯ Image restoration

◯ Image enhancement

◯ Image acquisition

14.   6. Which radio wave band has the longest wavelength?

*Mark only one oval.*

◯ gamma rays

◯ x-rays

◯ radio waves

◯ ultraviolet

15.   7. Histogram Equalisation is mainly used for _____.

*Mark only one oval.*

◯ Image enhancement

◯ Blurring

◯ Contrast adjustment

◯ None of these

16.    8. Images quantised with insufficient brightness levels will lead to the occurrence of _____

*Mark only one oval.*

⬭ Pixilation

⬭ Blurring

⬭ False Contours

⬭ None of these


17.    9. Vertical lines are angles at ___

*Mark only one oval.*

⬭ 0

⬭ 30

⬭ 35

⬭ 90


18.    10. In which step of the processing, assigning a label to an object based on its descriptors is done?

*Mark only one oval.*

⬭ Object recognition

⬭ Morphological processing

⬭ Segmentation

⬭ Representation & description

19. 11. Which is the first fundamental step in image processing?

*Mark only one oval.*

- ⬭ filtration
- ⬭ image acquisition
- ⬭ image enhancement
- ⬭ image restoration

20. 12. Which is the most important tool for numerous spatial domain processing techniques?

*Mark only one oval.*

- ⬭ Histogram
- ⬭ Filtering
- ⬭ Convolution
- ⬭ None of these

21. 13. Pick the properties to convert a continuous signal to digital one?

*Mark only one oval.*

- ⬭ Coordinates
- ⬭ Amplitude
- ⬭ All of these
- ⬭ None of these

22.  14. First derivative approximation says that values of intensities at the onset must be___.

*Mark only one oval.*

- ⬭ 0
- ⬭ Non 0
- ⬭ Positive
- ⬭ Negative

23.  15. Mask's response to zero means ____.

*Mark only one oval.*

- ⬭ Sum to zero
- ⬭ Subtraction to zero
- ⬭ Division to zero
- ⬭ Multiplication to zero

24.  16. Which is the image processing related field?

*Mark only one oval.*

- ⬭ medicines
- ⬭ chemistry
- ⬭ neurobiology
- ⬭ chemicals

25. 17. For a continuous image f(x, y), how could be Sampling defined?

*Mark only one oval.*

- ◯ Digitizing the coordinate values
- ◯ Digitizing the amplitude values
- ◯ All of these
- ◯ None of these

26. 18. Where does the Blind spot present?

*Mark only one oval.*

- ◯ Lens
- ◯ Ciliary body
- ◯ Retina
- ◯ Fovea

27. 19. In which way image can be subdivided into different regions?

*Mark only one oval.*

- ◯ Image enhancement
- ◯ Image acquisition
- ◯ Segmentation
- ◯ Wavelets

28.    20. Which of the following techniques of boundary descriptions have the physical interpretation of boundary shape?

*Mark only one oval.*

⬭ Fourier transform

⬭ Laplace transform

⬭ Statistical moments

⬭ Curvature

29.    21. How many number of steps are involved in image processing?

*Mark only one oval.*

⬭ 10

⬭ 9

⬭ 11

⬭ 12

30.    22. Which color has the longest wavelength in visible spectrum?

*Mark only one oval.*

⬭ Red

⬭ Green

⬭ Blue

⬭ Yellow

31.  23. What is the utility of Irish?

*Mark only one oval.*

○ Source of nutrition

○ Detect color

○ Varies focal length

○ Control amount of light

32.  24. The quality of a digital image is well determined by _____.

*Mark only one oval.*

○ The number of samples

○ The discrete gray levels

○ All of these

○ None of these

33.  25. Thresholding function in contrast stretching creates _____.

*Mark only one oval.*

○ Binary Image

○ High Quality Image

○ Enhanced Image

○ Low quality image

34.    26. Finished goods often checked using ____

*Mark only one oval.*

○ voice over IP

○ digital image processing

○ audio processing

○ video processing

35.    27. What is a Histogram?

*Mark only one oval.*

○ Counting of pixel

○ Pixel frequency in each intensity level

○ Counting of intensity

○ None of these

36.    28. How is sampling done when an image is generated by a single sensing element combined with mechanical motion?

*Mark only one oval.*

○ The number of sensors in the strip defines the sampling limitations in one direction and Mechanical motion in the other direction.

○ The number of sensors in the sensing array establishes the limits of sampling in both directions.

○ The number of mechanical increments when the sensor is activated to collect data.

○ None of these

37.  29. Laplacian images need ___.

*Mark only one oval.*

◯ Contraction

◯ Expansion

◯ Scaling

◯ Enhancement

38.  30. In which step of processing, the images are subdivided successively into smaller regions?

*Mark only one oval.*

◯ Image enhancement

◯ Image acquisition

◯ Segmentation

◯ Wavelets

39.  31. Image processing is important in which of the following fields?

*Mark only one oval.*

◯ Satellite Image

◯ Clinical image

◯ Cartographic mapping

◯ All of these

40.     32. In a nearly white image, the components of histogram are concentrated on which side of the grey scale?

*Mark only one oval.*

⬭ High

⬭ Medium

⬭ Low

⬭ Evenly distributed

41.     33. A dark image has _____ pixel frequency in upper regions of Histogram.

*Mark only one oval.*

⬭ High

⬭ Medium

⬭ Low

⬭ Evenly distributed

42.     34. If R is the entire region of the image then union of all segmented parts should be equal to ____.

*Mark only one oval.*

⬭ R

⬭ R'

⬭ Ri

⬭ Rn

43.   35. What role does the segmentation play in image processing?

*Mark only one oval.*

( ) Deals with extracting attributes that result in some quantitative information of interest

( ) Deals with techniques for reducing the storage required saving an image, or the bandwidth required transmitting it

( ) Deals with partitioning an image into its constituent parts or objects

( ) Deals with property in which images are subdivided successively into smaller regions

44.   36. Which color is having largest wavelength in visible spectrum?

*Mark only one oval.*

( ) Red

( ) Green

( ) Blue

( ) Yellow

45.   37. In a dark image, the components of histogram are concentrated on which side of the grey scale?

*Mark only one oval.*

( ) High

( ) Medium

( ) Low

( ) Evenly distributed

46.    38. Which is a colour attribute that describes a pure colour?

*Mark only one oval.*

◯ Saturation

◯ Hue

◯ Brightness

◯ Intensity

47.    39. Image segmentation is also based on _____.

*Mark only one oval.*

◯ Morphology

◯ Set theory

◯ Extraction

◯ Recognition

48.    40. What is the expanded form of JPEG?

*Mark only one oval.*

◯ Joint Photographic Expansion Group

◯ Joint Photographic Experts Group

◯ Joint Photographs Expansion Group

◯ Joint Photographic Expanded Group

49.    41. Manufactured goods often checked using _____

*Mark only one oval.*

   ◯ voice over IP

   ◯ digital image processing

   ◯ audio processing

   ◯ video processing

50.    42. For a continuous image f(x, y), Quantization is defined as ____.

*Mark only one oval.*

   ◯ Digitizing the coordinate values

   ◯ Digitizing the amplitude values

   ◯ All of these

   ◯ None of these

51.    43. What kind of relation can be obtained between the response of first order derivative and second order derivative of an image having a transition into gray-level step from zero?

*Mark only one oval.*

   ◯ First order derivative has a stronger response than a second order

   ◯ Second order derivative has a stronger response than a first order

   ◯ Both first and second order derivative has the same response

   ◯ None of these

52.    44. Points exceeding the threshold in output image are marked as ___

*Mark only one oval.*

○ 0

○ 1

○ 11

○ x

53.    45. When the desired object is detected segmentation should be____.

*Mark only one oval.*

○ Pused

○ Stopped

○ Cleared

○ Continued

54.    46. The major area of imaging in visual spectrum is in ___.

*Mark only one oval.*

○ automated visual inspection

○ auto visual inspection

○ visual inspection

○ automated inspection

55.    47. To convert a continuous sensed data into Digital form, which of the following is required?

*Mark only one oval.*

◯ Sampling

◯ Quantization

◯ Both Sampling and Quantization

◯ Neither Sampling nor Quantization


56.    48. _____ serve to get a general, overall picture of the field of view.

*Mark only one oval.*

◯ Cones

◯ Rods

◯ Retina

◯ All of these


57.    49. In spatial domain, which of the following operation is done on the pixels in sharpening the image?

*Mark only one oval.*

◯ Integration

◯ Average

◯ Median

◯ Differentiation

58. 50. Sobel and Pritwitt operators are used in _____.

*Mark only one oval.*

   ◯ Sharpening

   ◯ Blurring

   ◯ Smoothing

   ◯ Edge Detection

59. 51. Which lights are important in Image processing?

*Mark only one oval.*

   ◯ gamma rays

   ◯ x-rays

   ◯ visible and infrared

   ◯ ultraviolet

60. 52. How the term brightness adaptation is related to Image Processing?

*Mark only one oval.*

   ◯ Changing the eye's overall sensitivity

   ◯ Changing the eye's imaging ability

   ◯ Adjusting the focal length

   ◯ Transition from scotopic to photopic vision

61.   53. In a dark image,the pixel frequency will concentrate on which side of the grey scale?

*Mark only one oval.*

( ) High

( ) Medium

( ) Low

( ) Evenly distributed

62.   54. Which algorithm divides an image into regions?

*Mark only one oval.*

( ) Image enhancement

( ) Image acquisition

( ) Segmentation

( ) Wavelets

63.   55. What is the next step in image processing after compression?

*Mark only one oval.*

( ) Wavelets

( ) Segmentation

( ) Representation and description

( ) Morphological processing

64.    56. Anomaly detection is important in ___.

*Mark only one oval.*

⬭ lithography

⬭ astronomy

⬭ industrial inspection

⬭ medicine inspection

65.    57. In _____ image we notice that the components of histogram are concentrated on the high side on intensity scale.

*Mark only one oval.*

⬭ Bright

⬭ Dark

⬭ Colorful

⬭ All of these

66.    58. Smoothing in frequency domain is achieved by attenuating which of the following component in the transformation of a given image?

*Mark only one oval.*

⬭ Attenuating a range of high-frequency components

⬭ Attenuating a range of low-frequency components

⬭ All of these

⬭ None of these

67.    59. Mask's response to zero means ____.

*Mark only one oval.*

( ) Sum to zero

( ) Subtraction to zero

( ) Division to zero

( ) Multiplication to zero

68.    60. Wavelength of visible green ranges from

*Mark only one oval.*

( ) 0.52-0.70

( ) 0.52-0.62

( ) 0.53-0.60

( ) 0.52-0.60

69.    61. Fluorescing area shine against dark background to permit ___.

*Mark only one oval.*

( ) detection

( ) correction

( ) inspection

( ) enhancement

70.　62. In _____ image we notice that the components of histogram are concentrated on the low side on intensity scale.

*Mark only one oval.*

◯ Bright

◯ Dark

◯ Colorful

◯ All of these

71.　63. _____ is used to detect diseases such as bone infection and tumors.

*Mark only one oval.*

◯ MRI Scan

◯ PET Scan

◯ Nuclear Whole Body Scan

◯ X-Ray

72.　64. Image whose principal features are edges is called _____.

*Mark only one oval.*

◯ Orthogonal

◯ Isolated

◯ Edge map

◯ Edge normal

73.　65. Which of the following step deals with tools for extracting image components those are useful in the representation and description of shape?

*Mark only one oval.*

◯ Segmentation

◯ Representation & description

◯ Compression

◯ Morphological processing

74.　66. Remote sensing is an application of __.

*Mark only one oval.*

◯ gamma rays

◯ x-rays

◯ visible and infrared

◯ ultraviolet

75.　67. How many bits are available for a pixel in a color image?

*Mark only one oval.*

◯ 24

◯ 8

◯ 16

◯ 22

76.    68. What is the the principal objective of Sharpening?

*Mark only one oval.*

◯ Pixel density

◯ Composure

◯ Intensity

◯ To increase Brightness

77.    69. Example of discontinuity approach in image segmentation is

*Mark only one oval.*

◯ Edge based segmentation

◯ Boundary Based Segmentation

◯ Region Based Segmentation

◯ Both Edge based segmentation & Boundary Based Segmentation

78.    70. ____ is the example of discontinuity approach in image segmentation.

*Mark only one oval.*

◯ Edge based segmentation

◯ Area based Segmentation

◯ Region Based Segmentation

◯ None of these

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