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Paper ID: WD004 Course Code: DWAD-04T

## Examination (January - 2024) Certificate/ Diploma (Semester-II) Programme in Web Application Development

**Digital Imaging** 

## **Time Allowed: 2 Hours**

<u> Max. Marks: 70</u>

## **Instructions for the Students**

- 1. The question paper shall consist of 70 Multiple Choice questions.
- 2. All questions are compulsory. Each question carries 1 mark.
- 3. There will be no negative marking.

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Q1. Aspect Ratio can be defined as -	Q6. Which of the following uses the Beam penetration
a) The ratio of the vertical points to horizontal	method?
points	a) Raster scan system
b) Number of pixels in the image	b) Random scan system
c) Both (a) & (b)	c) Both (a) & (b)
d) None of the above	d) None of the above
Q2. Which of the following is not the pattern of	Q7. The video device with reduced volume, power
line?	consumption and weight is -
a) Dotted line	a) CRT
b) Dashed line	b) Flat-panel display
c) Dark line	c) Portable display
d) All of the above	d) None of the above
,	,
Q3. Which of the following transformation is used	Q8. A binary image contains how many values?
for altering the object's size?	a) 2
a) Translation	b) 5
b) Scaling	c) 6
c) Rotation	d) 1
d) None of the above	-, -
Q4. Which is not the input device?	Q9. 24 bit color format also known as?
a) Impact printers	a) True color format.
b) Trackball	b) red color format
c) Mouse	c) both a) and b)
d) Keyboard	d) Null
a) Rejourd	a) Itali
Q5. Random scan systems are used for -	Q10. Digitizing the coordinate values of a continuous
2. Italiaolii otali oj otelilo ale abea 101	image is called
a) Color drawing application	a) Compression
b) Pixel drawing application	b) Quantization
c) Line drawing application	c) Sampling
d) None of the above	d) Segmentation
a) None of the above	d) Segmentation

Q11. Which of the following is the first and foremost step in	Q21. Which of the following file formats is an example of lossy
Image Processing?	compression only?
a) Image acquisition	a) GIF
b) Segmentation	b) PNG
c) Image enhancement	c) JPEG
d) Image restoration	(d) TIFF
, ,	
Q12. Which of the following image processing approaches is	Q22. PNG stands for .
the fastest, most accurate, and flexible?	a) Portable Node Graphics
a) Photographic	b) Picture Node Graphics
b) Electronic	c) Portable Network Graphics
c) Digital	d) Pure Node Graphics
d) Optical	a) Ture House Graphics
Q13. Among the following image processing techniques	Q23. Compressed image can be recovered back by
which is fast, precise and flexible.	a) image enhancement
a) Optical	b) image decompression
b) Digital	c) image contrast
c) Electronic	d) image equalization
d) Photographic	d) image equalization
d) Photographic	
Q14. determines the quality of a digital image.	O24 Information is the
	Q24 Information is the
a) The discrete gray levels	a) data
b) The number of samples	b) meaningful data
c) discrete gray levels & number of samples	c) raw data
d) None of the mentioned	d) Both A and B
	025 WH' 1 Cd
Q15. An image is considered to be a function of $a(x,y)$ ,	Q25. Which of these image file formats do not scale very well?
where a represents:	a) TIFF
a) Height of image	b) GIF
b) Width of image	c) JPEG
c) Amplitude of image	d) BMP
d) Resolution of image	
Q16. Which of the following is the abbreviation of JPEG?	Q26. Reducing the data required referred to
a) Joint Photographic Experts Group	a) image enhancement
b) Joint Photographs Expansion Group	b) image compression
c) Joint Photographic Expanded Group	c) image contrast
d) Joint Photographic Expansion Group	d) image equalization
Q17. What is pixel?	Q27. Which of the following comes under the application of image
a) Pixel is the elements of a digital image	blurring?
b) Pixel is the elements of an analog image	a) Image segmentation
c) Pixel is the cluster of a digital image	b) Object motion
d) Pixel is the cluster of an analog image	c) Object detection
	d) Gross representation
Q18. The digitization process, in which the digital image	Q28. PNG File format is best for
comprises M rows and N columns, necessitates choices for	a) High Quality prints
M, N, and the number of grey levels per pixel, L. M and N	b) Archival copies
must have which of the following values?	c) Scans
a) M have to be positive and N have to be negative integer	d) Web images
b) M have to be negative and N have to be positive integer	
c) M and N have to be negative integer	
d) M and N have to be positive integer	
,	
Q19. Which of the following tool is used in tasks such as	Q29. The range of values spanned by the gray scale is called:
zooming, shrinking, rotating, etc.?	a) Dynamic range
a) Filters	b) Band range
b) Sampling	c) Peak range
c) Interpolation	d) Resolution range
d) None of the Mentioned	
Q.20. The effect caused by the use of an insufficient number	Q30. Which is a colour attribute that describes a pure colour?
of intensity levels in smooth areas of a digital image	a) Saturation
is .	b) Hue
a) False Contouring	c) Brightness
b) Interpolation	d) Intensity
c) Gaussian smooth	, ,
d) Contouring	

Q31. Color model is also named as (another name):	Q41. A typical size comparable in quality to monochromatic TV image
a) Color space	is of size.
b) Color gap	a) 256 X 256
c) Color space & color system	b) 512 X 512
d) Color system	c) 1920 X 1080
Q32. What do you mean by the term pixel depth?	d) 1080 X 1080  Q42. The number of grey values are integer powers of:
a) It is the number of bits used to represent each pixel in	a) 4
RGB space	b) 2
b) It is the number of bytes used to represent each pixel in	c) 8
RGB space	d) 1
c) It is the number of units used to represent each pixel in	
RGB space	
d) It is the number of mm used to represent each pixel in	
RGB space	
Nob spare	
Q33. How many bit RGB color image is represented by full-	Q43. is a type of digital painting and 2d animation software, also
color image?	known as a raster graphics editor.
a) 32-bit RGB color image	a) Krita
b) 24-bit RGB color image	b) Abode
c) 16-bit RGB color image	c)Paint
d) 8-bit RGB color image	d)Notepad
Q34. What is the equation used to obtain S component of	Q44. Which of the following is the advantage of Krita?
each RGB pixel in RGB color format?	a)It is open-source software so it has large community support.
a) $S=1+3/(R+G+B)$ [min $(R,G,B)$ ].	b) It comes with a large number of brushes which help in creating
b) $S=1+3/(R+G+B)$ [max (R,G,B)].	complex digital artwork.
c) $S=1-3/(R+G+B)$ [max $(R,G,B)$ ].	c) It allows 2D animation and image editing in an easy manner.
d) $S=1-3/(R+G+B)$ [min $(R,G,B)$ ].	d) All of the above
O25 A C1 with the EVD C1 control in the	0.45 I. 1-14 61
Q35. A file with the EXR file extension is an bitmap file.	Q45. In krita files are save with theextension.
	a) .kra b) .kera
a) OpenEXR b) Extension	c) .csv
c) Extra	d) .krax
d) OpenCV	u) .Ri ax
Q36. is the most widely used term to denote the	Q46. can be understood as a vector image-creating software
elements of a digital image.	which produces SVG images.
a) Pixel	a) Inkscape
b) Number	b) Photoshop
c) Coordinates	c) Paint
d) None	d) Photo editor
Q37 GIF stands for	Q47. Inkscape is available in nearlylanguages.
a) Graphics Interchange Format	a) 90
b) Graphical Interface Format	b) 7
c) Graphical Interface Function	c) 4
d) Graphics Integrated Format	d) 2
Q38. Print resolution is measured in	Q48 does not support android systems.
a) Pixels per inch (PPI).	a) Krita
b) Dots per inch(DPI)	b) Inkscape
c) Lines per inch	c) Both a and b
d) None of the above	d) None of the above
Q39. Which of the following color models are used for color	Q49. Full form of SVG is
printing?	a) Scalable Vector Graphic
a) RGB	b) Small Vector Graphic
b) CMY	c) Scale Vector Grid
c) CMYK d) CMY and CMYK	d) All of the above
Q40. Which gives a measure of the degree to which a pure	Q50. retains image quality on the zooming.
colour is diluted by white light?	a) Krita
a) Saturation	b) Inkscape
b) Hue	c) Both a and b
c) Intensity	d) None of the above
d) Brightness	,
Q51. GIMP is an image editing tool.	Q61. What is Digital Image Processing?

a) Open source	a) It's an application that alters audios.
b) Proprietary	b) It's a software that allows altering digital pictures
c) Shareware	c) It's a system that manipulates digital medias
d) None of the above	d) It's a machine that allows altering digital images
Q52. Thetool in GIMP allows you to select a	
drawing with the free-hand.	Q62. Which of the following process helps in Image enhancement?
a)Fuzzy Selection	a) Digital Image Processing
b)Lasso	b) Analog Image Processing
c)Text	c) Both a and b
d)Bucket Fill	d) None of the above
Q53. Shift+C is the short cut to the image in GIMP.	Q63. Among the following, functions that can be performed by digital
a)Duplicate	image processing is?
b)Delete	a) Fast image storage and retrieval
c)Copy	b) Controlled viewing
d)Crop	c) Image reformatting
	d) All of the above
Q54. GIMP's basic palette, consists ofcolours.	Q64. Which of the following is an example of Digital Image
a)Three	Processing?
b)Two	a) Computer Graphics
c)One	b) Pixels
d)Many	c) Camera Mechanism
	d) All of the mentioned
Q55. It is the most important part of the image window	Q65. What are the categories of digital image processing?
where the image is displayed.	a) Image Enhancement
a)Canvas	b) Image Classification and Analysis
b)Window	c) Image Transformation
c)Scale	d) All of the mentioned
d)Size	
Q56. Visual effects, also called VFX, enable to	Q66. What is gamma correction?
enhance a story by bringing to life believable characters,	a) A process to remove power-law transformation response phenomena
worlds, and stunts.	b) A process to remove log transformation response phenomena
a) Filmmakers	c) A process to correct log transformation response phenomena
b) Teachers	d) A process to correct power-law transformation response phenomena
c) Doctors	
d) Students	
Q57. is the blanket term used to describe	Q67. Log transformation is generally used in which of the following
digitally-created VFX in film and television.	device(s)?
a) Chroma Keying	a) Cathode ray tube
b) Computer-generated imagery	b) Scanners and printers
c) Performance Capturing	c) All of the mentioned
d) None of the above	d) None of the mentioned
Q58. A is an image, created using digital or	Q68. For a continuous image $f(x, y)$ , how could be Sampling defined?
traditional painting techniques, to create a representation of a	a) Digitizing the coordinate values
scene that would be impossible for filmmakers to deliver in	b) Digitizing the amplitude values
real life.	c) All of the mentioned
a) Matte painting	d) None of the mentioned
b) Master piece	
c) Royal Painting	
d) All of the above	
Q59. The higher number of pixels gives us a image	Q69. The two most common 2D graphic file formats used on the web
a) Better	are?
b) Worst	
c) Smaller	a) GIF & BMP
d) None of the above	b) JPG & BMP
	c) GIF & JPG
	d) JPG & TIF
Q60. Which one of the following is the widely used output	Q70. What are the categories of digital image processing?
device?	a) Image Enhancement
a) Video monitor	b) Image Classification and Analysis
b) Scanner	c) Image Transformation
c) Speaker	d) All of the mentioned
d) Printer	