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Unit 01 Digital C	<u>ontent</u>					
1 refe	rs to the syr	nbols that re	epresent people, events, things, and ideas.			
ANSWER:		Data	a			
REFERENCES:		DA	TA REPRESENTATION BASICS			
2. Data refers to th	2. Data refers to the symbols that represent people, events, things, and ideas.					
		a.	True			
		b.	False			
ANSWER:		True	e			
REFERENCES:		DA	TA REPRESENTATION BASICS			
3. Data becomes _	wh	en it is prese	ented in a format that people can understand and use.			
ANSWER:			ormation			
REFERENCES:		DA	TA REPRESENTATION BASICS			
	refers to		which data is stored, processed, and transmitted.			
ANSWER:		•	resentation			
REFERENCES:		DA	TA REPRESENTATION BASICS			
		that ha	we been converted into discrete digits such as 0s and 1s.			
a.	text					
b.	number					
c.	0 1	s, sound, and	id Video			
d.	all of th	e above				
ANSWER:		d				
REFERENCES:		DA	TA REPRESENTATION BASICS			
6. The process of omanipulated by ele			such as text, numbers, photos, or music, into digital data that can be			
mampulated by ele		oinary	u			
	b. 6	•				
		epresentatio	on			
		none of the a				
ANSWER:	<u></u>	b				
REFERENCES:			TA REPRESENTATION BASICS			
7. A file name extension indicates the file format.						
, . 11 IIIO Haille Oiko	onston mare	a.	True			
		b.	False			
ANSWER:		True				
REFERENCES:			TA REPRESENTATION BASICS			
8. The 0s and 1s u	sed to repre	sent digital o	data are referred to as digits.			
ANSWER:	•	bina				
REFERENCES:		DA	TA REPRESENTATION BASICS			

		<u>:</u>	e:				
Unit 01 Digital Conte	e <u>nt</u>						
9. data cons	ists of numbers t	nat can be used in arithmetic operations.					
	a.	Text					
	b.	Digital					
	c.	Numeric					
	d.	Binary					
ANSWER:		c					
REFERENCES:		REPRESENTING NUMBERS					
10. The binary number	system has only	two digits: 1 and 2.					
·	a.	True					
	b.	False					
ANSWER:		False					
REFERENCES:		REPRESENTING NUMBERS					
11. The numb	oer system allow	digital devices to represent virtually any number simp	ly by using 0s and 1s.				
	a.	digital					
	b.	text					
	c.	numeric					
	d.	binary					
ANSWER:		d					
REFERENCES:		REPRESENTING NUMBERS					
12. Character data is co	omposed of lette	s, symbols, and numerals that are used in calculations.					
	a.	True					
	b.	False					
ANSWER:		False					
REFERENCES:		REPRESENTING TEXT					
13. ASCII requires	bits fo	each character.					
	a.	two					
	b.	six					
	c.	seven					
	d.	ten					
ANSWER:		С					
REFERENCES:		REPRESENTING TEXT					
14. Unicode uses	bits and pro	vides codes for 65,000 characters.					
	a.	seven					
	b.	eight					
	c.	ten					
	d.	sixteen					
ANSWER:		d					

Class

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Name

Name			Class :	Dat e:
Unit 01 Digital C	Content			
REFERENCES:			REPRESENTING TEXT	
15. Plain, unform	atted text	is sometimes called A	ASCII text.	
		a.	True	
		b.	False	
ANSWER:			True	
REFERENCES:			REPRESENTING TEXT	
16. ASCII text fil	les contain	formatting.		
		a.	True	
		b.	False	
ANSWER:			False	
REFERENCES:			REPRESENTING TEXT	
17. In a formatted	d text file,	signals the	e beginning and end of a formatting command.	
ANSWER:			delimiter, delimiters	
REFERENCES:			REPRESENTING TEXT	
18 All of the data	a stored ar	nd transmitted by digi	tal devices is encoded as bits.	
io. 7 m or me dan	a stored ar	a.	True	
		b.	False	
ANSWER:			True	
REFERENCES:			BITS AND BYTES	
19. A group of eig	ght bits is	called a .		
5 1	a.	byte		
	b.	megabit		
	c.	binary		
	d.	numeric data		
ANSWER:			a	
REFERENCES:			BITS AND BYTES	
20. Transmission	speeds are	e expressed in	, whereas storage space is expressed in	
	a.	bits, bytes		_
	b.	bytes, bits		
	c.	binary, numeric		
	d.	none of the above		
ANSWER:			a	
REFERENCES:			BITS AND BYTES	
21. Data	ref	ers to any technique t	that recodes the data in a file so that it contains fe	ewer bits.
4NSWER:			compression	

COMPRESSION

REFERENCES:

name :				_:	Dat e:
Unit 01 Digital Con	<u>itent</u>			-	
22. Lossy compressi	ion provide	s a way to co	mpress data ar	nd reconstitute it into its	original state.
		a.	True		
		b.	False		
ANSWER:				False	
REFERENCES:				COMPRESSION	
23. Lossy compressi	ion throws	away some o	f the original d	lata during the compress	ion process.
		a.	True		
		b.	False		
ANSWER:				True	
REFERENCES:				COMPRESSION	
24. Compressed file	s usually h	avea	t the end of the	e file name.	
a	e	xe			
b	Z	ip			
c	t:	xt			
d	. no	one of the abo	ove		
ANSWER:				b	
REFERENCES:				COMPRESSION	
25 is n	nusic, spee	ch, and other	sounds represe	ented in binary format fo	or use in digital devices.
a.	M	IDI			
b.	spe	eech recognit	ion		
c.	spe	eech synthesi	S		
d.	Di	gital audio			
ANSWER:			d		
REFERENCES:			DIGITAL A	AUDIO BASICS	
	ord sound, _	(of a sound wav	re are collected at period	ic intervals and stored as numeric data
in an audio file.					
ANSWER:			-	mple, sampling	
REFERENCES:			DIGITAL A	AUDIO BASICS	
27. Sampling	refers to		of times per se	econd that a sound is mea	asured during the recording process.
	a.	rate			
	b.	compres	ssion		
	c.	depth			
	d.	sound			
ANSWER:			a		
REFERENCES:			DIGITAL A	AUDIO BASICS	
28. To conserve space	ce, applicat	tions that req		ty sound use low sampli	ng rates.
		a.	True		

Name :			Class :	Dat e:
Unit 01 Digital C	ontent			
		b.	False	
ANSWER:			False	
REFERENCES:			DIGITAL AUDIO BASICS	
29. Regardless of	sampling	rate, digital au	dio file size can be reduced using	audio compression techniques.
		a.	True	
		b.	False	
ANSWER:			True	
REFERENCES:			DIGITAL AUDIO BASICS	
30. Most music fo	r portable	e media players	is stored in audio file fo	rmats.
	a.	uncompr		
	b.	compres	sed	
	c.	lossless		
	d.	zipped		
ANSWER:		b		
REFERENCES:		DI	GITAL AUDIO FILE FORMATS	
31 Digital audio i	is stored in	n a variety of f	le formats, including	
31. Digital addie	a.	WMA	Tormais, morading	_
	b.	WAV		
	c.	MP3		
	d.	all of the a	bove	
ANSWER:		d		
REFERENCES:		DI	GITAL AUDIO FILE FORMATS	
32 Which of the t	following	is NOT a form	at that is used for digital audio?	
32. Which of the	ionownig	a.	MP3	
		b.	DOC	
		c.	WAV	
		d.	Ogg	
ANSWER:		ь	66	
REFERENCES:			GITAL AUDIO FILE FORMATS	
33 A(n)	ic coftwa	re that works is	a conjunction with your computer	's browser to manage and play audio that you
are accessing fron	18 sonwa 1 a Web n	age.	r conjunction with your computer	s blowser to manage and play addio that you
ANSWER:	r	-	lio plugin	
REFERENCES:			GITAL AUDIO FILE FORMATS	
34 The technical	term for r	inning music t	racks is digital audio extraction.	
5 i. The technical		a.	True	
		ь. b.	False	
ANSWER:		o. Tri		

Name :			Class :	Dat e:
Unit 01 Digit				
REFERENCE	ES:	DIGITA	AL AUDIO FILE FORMATS	
35 s _ī	pecifies a s	tandard way to store m	usic data for synthesizers and co	omputers.
ANSWER:				MIDI
REFERENCE	ES:			MIDI
36. MIDI file	s are less c	ompact than digital aud	dio files.	
		a.	True	
		b.	False	
ANSWER:				False
REFERENCE	ES:			MIDI
37. One of the	e main disa	ndvantages of MIDI is t	hat it cannot produce vocals.	
		a.	True	
		b.	False	
ANSWER:				True
REFERENCE	ES:			MIDI
	_ enables 1	people to control softw	are with spoken commands, as v	vell as dictate text into a word processing
document.		MIDI		
	a.	MIDI		
	b.	Speech synthesis		
	c.	Speech recognition	L	
ANGINED	d.	Phonemes		
ANSWER:	7.0		C	
REFERENCE	žS:		DIGITIZED SPEECH	
	is the p	rocess by which machi	nes produce sound that resemble	es spoken words.
ANSWER:			Speech synthesis	
REFERENCE	ES:		DIGITIZED SPEECH	
40. Text-to-spinto sentences			s in a section of text, finds corre	sponding phonemes, and combines them
		a.	True	
		b.	False	
ANSWER:			True	
REFERENCE	ES:		DIGITIZED SPEECH	
41. Speech re	cognition s	software analyzes the se	ounds of your voice and convert	s each word into groups of
ANSWER:	-	•	phonemes, phoneme	<u> </u>
REFERENCE	ES:		DIGITIZED SPEECH	
42. A bitmap	graphic is	composed of a grid of	tiny rectangular cells.	

True

a.

Name :			Class :
Unit 01 Digital Conter	<u>nt</u>		_
	b.	False	
ANSWER:			True
REFERENCES:			BITMAP BASICS
43. Digital photographs	s are stored as	s bitmap files.	
	a.	True	
	b.	False	
ANSWER:			True
REFERENCES:			BITMAP BASICS
44. In a digital camera,	a CCD's		
ANSWER:		•	notosites, photosite
REFERENCES:		В	ITMAP BASICS
45. Which of the follow	ving is NOT	a type of bitmap forma	at?
	a.	TIFF	
	b.	RAW	
	c.	PNG	
	d.	ZIP	
ANSWER:			d
REFERENCES:			BITMAP BASICS
46. Bitmap images are	formed by a	grid of	
ANSWER:		pixels	
REFERENCES:		BITMAP DATA RE	EPRESENTATION
47. Today's color displ	ay devices re	present color using th	e color model.
a.	RGB		
b.	PNG		
c.	BMP		
d.	none o	f the above	
ANSWER:		a	
REFERENCES:		BITMAP DATA RE	EPRESENTATION
48. The number of colo	ors available i	• 1	to as color
	a.	depth	
	b.	range	
	c.	RGB	
	d.	PNG	
ANSWER:		a	DD DGD
REFERENCES:		BITMAP DATA RE	EPRESENTATION
49. 8-bit color depth is	also called T	rue Color.	

Dat e:

name :			Cla :	SS	Dat e:
Unit 01 Digital Co	<u>ontent</u>				
		a.	True		
		b.	False		
ANSWER:		False			
REFERENCES:		BITMAP	DATA REPRES	SENTATION	
50. The dimensions	s of the gri	d that forms a bitn	nap graphic are	referred to as ima	ge
ANSWER:			resolution		
REFERENCES:			BITMAP RES	SOLUTION	
51. Bitmap graphic	s are resol	ution dependent b	ecause each eler	nent is a discrete	pixel.
		a.	True		
		b.	False		
ANSWER:			True		
REFERENCES:			BITMAP RES	SOLUTION	
52. An undesirable	jagged ap	pearance of a grap	ohics image is re	ferred to as	·
ANSWER:			pixelation		
REFERENCES:			BITMAP RES	SOLUTION	
53. Most graphics spixels.	software u	ses a process calle	d pixel	to create new	pixels by averaging the colors of nearby
	a.	polarization	l		
	b.	interpolation	n		
	c.	compression	n		
	d.	resolution			
ANSWER:			b		
REFERENCES:			BITMAP RES	SOLUTION	
54. Image	refers	to any technique	that recodes the	data in an image	file so that it contains fewer bits.
ANSWER:			compression		
REFERENCES:			IMAGE COM	PRESSION	
55. TIFF, PNG, and	d GIF grap	hics formats offer	lossy compress	ion.	
		a.	True		
		b.	False		
ANSWER:			False		
REFERENCES:			IMAGE COM	PRESSION	
56. JPEG files are	compresse	d using lossy com	-		
		a.	True		
		b.	False		
ANSWER:			True		
REFERENCES:			IMAGE COM	PRESSION	

Name :			Class :	Dat e:
Unit 01 Digit	al Conten	<u>t</u>		
57. Lossy con	npression	techniques discard	l some data from an image to sh	rink its file size.
•	•	a.	True	
		b.	False	
ANSWER:			True	
REFERENCE	ES:		IMAGE COMPRESSIO	N
	aphics are	coded as a series	of bits. Each bit represents the	color of one
ANSWER:		•	pixel	
REFERENCE	ES:]	MODIFYING BITMAP IMAGI	ES
59. Image edi dark, mid-ran <i>ANSWER</i> :		t pixels		st the brightness values for various ranges of
	ZC.		nistogram	EC
REFERENCE	23:	J	MODIFYING BITMAP IMAGI	ES .
		em to another are		gorithms that pull pixels from one area of an
	a.	inpainting		
	b.	cloning		
	c.	noise reductio		
	d.	image enhanc		
ANSWER:)	
REFERENCE	ES:]	MODIFYING BITMAP IMAGI	ES
	g e	•	·	cks out the background to make it transparent.
ANSWER:			oath	
REFERENCE	ES:]	MODIFYING BITMAP IMAGI	ES
		ed to describes alto o merge with the		edges of the object and the background meet, so
	a.	Alpha ble	<u> </u>	
	b.	Clipping	path	
	c.	Cloning		
	d.	Inpainting		
ANSWER:		8	ı	
REFERENCE	ES:]	MODIFYING BITMAP IMAGI	ES
63. A vector g	graphic co	nsists of a set of in	nstructions for creating a picture	s.
		a.	True	
		b.	False	
ANSWER:			True	
REFERENCE	ES:		VECTOR GRAPHICS BASIC	CS
64. Instead of	storing th	e color value for e	each pixel, a vector graphics file	contains instructions that a computer uses to

Name :			Class :	Dat e:
Unit 01 Digital Co	ontent			
create the shape, si	ze, posit	ion, and color	for each object in an image.	
•		a.	True	
		b.	False	
ANSWER:			True	
REFERENCES:			VECTOR GRAPHICS BASE	ICS
65. When you char edges.	nge the s	ize of a(n)	graphic, the objects char	nge proportionally and maintain their smooth
ANSWER:			vector	
REFERENCES:			VECTOR GRAPHICS BASE	ICS
66. Vector graphic	s usually	require more	storage space than bitmaps.	
		a.	True	
		b.	False	
ANSWER:			False	
REFERENCES:			VECTOR GRAPHICS BASE	ics
67. Which of the fo	ollowing	options are w	ell suited for using vector grap	hics?
	a.	line art		
	b.	logos		
	c.	diagrams		
	d.	all of the	above	
ANSWER:			d	
REFERENCES:			VECTOR GRAPHICS BASE	ICS
68. All bitmap grap	ohics are	photos.		
101	•	a.	True	
		b.	False	
ANSWER:			False	
REFERENCES:			VECTOR GRAPHICS BASE	ICS
69. Which of the fo	ollowing	file extension	s is NOT a vector graphic?	
		a.	.svg	
		b.	.eps	
		c.	.tif	
		d.	.ai	
ANSWER:			c	
REFERENCES:			VECTOR GRAPHICS BASE	ICS
70. Both scanners	and digit	al cameras pro	duce vector graphics.	
	J	a.	True	
		b.	False	
ANSWER:			False	

Name :					Class	Dat e:		
Unit 01 Digi	ital Conte	e <u>nt</u>						
REFERENC	ES:			VECTOR TOOLS				
71. What is a	another tei	rm for vector gr	raphics softw	vare?				
	a.	Drawing sof	tware					
	b.	Photo editin	g software					
	c.	Digital comp	positing					
	d.	All of the ab	oove					
ANSWER:		a						
REFERENC	ES:				VECTOR TOOLS			
	graphic ca	an be converted	l into a bitma		c through a process called	·		
ANSWER:				ing, rasterization				
REFERENCES:			VECTO	OR TOOLS				
73. After a v	ector grap		d to a bitmap		ulting graphic no longer ha	as the qualities of a vector graphic.		
		a.		True				
		b.		False	_			
ANSWER:					True			
REFERENC	ES:				VECTOR TOOLS			
					tructions describing the co	pordinates for lines and shapes in a		
three-dimens	-	ce. What do the		orm?				
	a.		p graphic					
	b.	a zippe						
	c.	a wiref						
	d.	all of tl	ne above					
ANSWER:					c			
REFERENC	ES:				3-D GRAPHICS			
75. The proc	ess of cov	ering a wirefra	me with surf	ace color	and texture is called	·		
ANSWER:					rendering, render			
REFERENC	ES:				3-D GRAPHICS			
76. Which of	f the follo	wing is the tech	nique for ad	ding ligh	t and shadows to a 3-D in	nage?		
		a.	rendering					
		b.	ray tracing					
		c.	wireframe					
		d.	rasterize					
ANSWER:					b			
REFERENC	ES:				3-D GRAPHICS			
77. 3-D grap	hics can b	e animated.						
		a.		True				
		b.		False				

Name :		Class :
Unit 01 Digital Conte	<u>nt</u>	
ANSWER:		True
REFERENCES:		3-D GRAPHICS
78. Which of the follow a.	ving tools would be t	found in 3-D graphics software?
b.	ray tracing tools	
c.	surface texture to	ools
d.	all of the above	
ANSWER:		d
REFERENCES:		3-D GRAPHICS
79. Digital video uses b	oits to store color and	d brightness data for each video frame. True
	b.	False
ANSWER:		True
REFERENCES:		DIGITAL VIDEO BASICS
80. Analog footage can <i>ANSWER</i> :	be digitized using v	
REFERENCES:		capture DIGITAL VIDEO BASICS
REFERENCES.		DIGITAL VIDEO BASICS
81. Digital c	aptures moving imag	ges as bits, rather than on film.
ANSWER:		cinematography
REFERENCES:		DIGITAL VIDEO BASICS
82. Digital video is a co	ore technology for w ligital television	hich of the following?
b. v	videoconferencing sy	rstems
c. v	video messaging	
d. a	all of the above	
ANSWER:		d
REFERENCES:		DIGITAL VIDEO BASICS
83. Which of the follow	ving is NOT a factor	in the quality of digital video?
a. fram	e rate and resolution	
b. color	and bit depth	
c. comp	pression technique	
d. mem	ory technology in yo	our camera
ANSWER:		d
REFERENCES:		DIGITAL VIDEO BASICS
84. In digital video, eac	ch bitmap image is re	eferred to as a(n)
ANSWER:		frame

Dat e:

Name :			Class :	Dat e:
Unit 01 Digital				
REFERENCES:			DIGITAL VIDEO BASI	CS
85. The number	of frames	that are displayed	per second is measured in _	
	a.	compress	ion	
	b.	fps		
	c.	color dep	th	
	d.	bps		
ANSWER:			b	
REFERENCES:			DIGITAL VIDEO BASI	CS
86. Digital video	os look sha	arpest when they ar	e displayed at a resolution	that is larger than the frame size.
		a.	True	
		b.	False	
ANSWER:			False	
REFERENCES:			DIGITAL VIDEO BASI	CS
87. Video resolu	itions can	be expressed as wid	dth x height.	
		a.	True	
		b.	False	
ANSWER:			True	
REFERENCES:			DIGITAL VIDEO BASI	CS
88. Today's wid	lescreen de	-	ops and smartphones, are de	esigned for the 16:9
	a.	resolution		
	b.	aspect ratio		
	c.	frame rate		
	d.	all of the abo	ve	
ANSWER:			b	
REFERENCES:			DIGITAL VIDEO BASI	CS
89. When 4:3 vi	deos are d	isplayed in a wides	creen player, they are bord	ered by the black bars of a(n)
ANSWER:			letterbox	
REFERENCES:			DIGITAL VIDEO BASI	CS
90. In digital vic	leo, as lon	g as the proportion	of horizontal and vertical p	pixels remains the same, the aspect ratio is
		a.	True	
		b.	False	
ANSWER:			True	
REFERENCES:			DIGITAL VIDEO BASI	CS
91 is	the numb	er of bits that are pr	ocessed during a specific u	unit of time, usually during one second.
	a.	Bit rate		
	b.	Bit depth		

ivanie		Class	e:
Unit 01 Digital Content		·	o
c.	Color depth		
d.	none of the above		
ANSWER:		1	
REFERENCES:		DIGITAL VIDEO BASICS	
92. Bit rate can be scaled do	own by reducing the	resolution and applying	techniques.
ANSWER:	,	compression	<u> </u>
REFERENCES:		VIDEO COMPRESSION	
93. In digital video, a lower	resolution reduces t	the bit rate.	
	a.	True	
	b.	False	
ANSWER:		True	
REFERENCES:		VIDEO COMPRESSION	
94 compression c	an be applied to eacl	h frame of a video.	
ANSWER:		Intraframe	
REFERENCES:		VIDEO COMPRESSION	
95 compression	stores only the pixel	s that change color from one fram	ne to the next.
ANSWER:		Interframe	
REFERENCES:		VIDEO COMPRESSION	
96. Video compression can	be expressed as a co	ompression	
ANSWER:		ratio	
REFERENCES:		VIDEO COMPRESSION	
97. A(n) is the sof the video is played.	tware that compress	es a video stream when a video is	stored, and decompresses the file when
a.	compression	1	
b.	codec		
c.	bitmap		
d.	resolution		
ANSWER:		b	
REFERENCES:		VIDEO COMPRESSION	
98. Video files are stored in	formats t	that hold the compressed video str	ream and an audio stream.
ANSWER:		container	
REFERENCES:		VIDEO FILE FORMATS	
99. Which of the following	is NOT a type of dig		
	a.	MP4	
	b.	AVI	
	C	VOR	

Name	Class	Dat
		٥.
		C.

Unit 01 Digital Content

d. PNG

ANSWER: d

REFERENCES: VIDEO FILE FORMATS

100. Transcoding digital videos does not cause a loss of quality.

a. True

b. False

ANSWER: False

REFERENCES: VIDEO FILE FORMATS