## ICS3C0 – Day 2 – Multiple Choice Exam Review – Jan 2018

Please answer on the scantron card. Use a pencil.

Put your name on the scantron card NOW. Don't wa	t vo	our	name	on t	he s	cantr	on	card	N(	W.	Doi	ı't v	vai	it
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This is due by the end of the period.

Button in your answers carefully. Erase carefully.

If you fail to erase or bubble correctly, your mark will stand.

1.	Which one is a (a) int	widget? (b) JLabel	(c) Touchscreen	(d) System.out.pr	intln	(e) Red
2.	In which SDLC (a) Analysis	phase would a pro (b) Design	grammer make the (c) Coding	GUI? (d) Reflection	(e) Maint	enance
3.	Which one is a (a) new JLabel		(c) setText	(d) getActionComma	nd (e) IC	).inputInt
4.	How do you set (a) resize(50,60 (b) screen.setSiz (c) screen.setSiz	ze(50,60);	een to 50,60? (d) setSize(50.60) (e) setBackgroun			
5.	<ul><li>(a) setBackgrou</li><li>(b) setForegrou</li></ul>	_	(d) app (e) init	olet.setBackground(Co .setBackground(Color	_	
<b>5</b> .	(b) button.setFo	a button's font? ackground(Color.re oregrdound(Color.le ctionCommand("cl	blue); (e) but	ton.setFont(new Font ton.addActionListener	•	nt.PLAIN, 20)
7.	(a) button.setA (b) button.add.	ActionCommand("c ActionListener(thi	=	(d) a and (e) all of	b the above.	
3.	(a) button.show (b) button.setT	s) the text on a but wStatus("You Win! 'ext("You Win!"); .abel("You Win!");	ton in ActionPerforn (d) a and (e) all of t	b		
9.	(a) JButton title (b) JLabel title	new title on the so e = new JButton ("4 = new JLabel ("4 P title = new JTextFie	4 Pics 1 Word");	(d) a and b (e) all of th		

- 10. After you click a button, e.getActionCommand() holds:
  - (a) the JButton's Action Listener
  - (b) the text on the JButton
  - (c) the JButton's Action Command
  - (d) a and c
  - (e) None of the above

<ol> <li>You would declare a JLabel globally if:         <ul> <li>(a) You needed to change its text in actionPerformed</li> <li>(b) You needed to change its background to red in init</li> <li>(c) It had a lot of formatting.</li> <li>(d) It was a picture.</li> <li>(e) None of the above.</li> </ul> </li> </ol>							
12. Which one is a string used to distinguish be (a) ActionListeners (b) ActionComm		? ) ActionPerformed	l (d) ActionEvent				
13. Which one watches over a button and trigg (a) ActionListeners (b) ActionComm	•	) ActionPerformed	d) ActionEvent				
14. Which one is a method where events are positive (a) ActionListeners (b) ActionCommon		) ActionPerformed	d) ActionEvent				
15. A can be used to create or display (a) JMenu (b) JTextField (c) JRa		(d) JCheckbox	(e) JSlider				
16. Methods that cannot be called on a JLabel i (a) setText (b) setFont (c) set		d (d) setBackgro	ound (e) setIcon				
17. Which widgets have events? (a) JLabel (b) JTextField (c) JBu	itton (	(d) JTextArea	(e) Panel				
<ul><li>18. Where is this line of code found: add (ti</li><li>(a) libraries (b) actionPerformed</li></ul>	-	(d) globally					
19. Where is this line of code found: b1.addA (a) libraries (b) actionPerformed							
20. Where is this line of code found: e.getAc (a) libraries (b) actionPerformed		().equals (" (d)globally	tip me!")				
	21. Where is this line of code found: JButton b1 = new JButton ("New Tip"); (a) libraries (b) actionPerformed (c) init (d) globally						
22. What category of method is .setText? (a) accessor (b) mutator (c) cor	nstructor (	(d) facilitator					
23. What category of method is this line:  JLabel title = new JLabel ("Cl (a) accessor (b) mutator (c) cor		(d) facilitator					
24. What category of method is e.getActionCor (a) accessor (b) mutator (c) cor		(d) facilitator					
25. How many widgets are on this screen?  (a) 6 (b) 5 (c) 4 (d) 3 (e) 0  GradeCalc  Enter your gradeCalc runni	have level 4+	Find Level					

- 26. Which line of code has an error:
  - (a) JButton next = new JButton ("Next screen");
  - (b) next.setActionCommand ("2");
  - (c) next.addActionListener ( );
  - (d) next.setForeground(Color.white);
  - (e) next.setBackground(Color.black);
- 27. Which code has the correct order to make these widgets appear on the screen?

```
JLabel n1 = new JLabel ("Tiger");
JButton n2 = new JButton ("Elephant");
JTextField n3 = new JTextField (6);
```

- (a) add (n3); add (n2); add (n1);
- (b) add(n1); add(n2); add(n3);
- (c) add (n3); add (n1); add (n2);
- (d) add (n2); add (n1); add (n3);



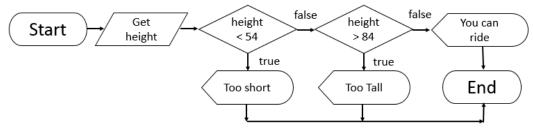
## The next three questions refer to this screen:

- 28. How many widgets are on this screen?
  - (a) 4
- (b) 5
- (c) 6
- (d) 10
- (e) 2
- 29. How many actionListeners would be declared in init?
  - (a) 0
- (b) 1
- (c) 2
- (d) 3
- (e) 4

- 30. How many JLabels are on this screen?
  - (a) 0
- (b) 1
- (c) 2
- (d) 3
- (e) 4



## For the next three questions, consider this flowchart:



- 31. Which widget is required for the "get height" parallelogram?
  - (a) JLabel
- (b) JTextField
- (c) JButton
- (d) JTextArea
- (e) Panel
- 32. Which widget is required for the "you can ride" pencil-shape?
  - (a) [Label
- (b) |TextField
- (c) [Button
- (d) |TextArea
- (e) Panel
- 33. Which code construct is required for the "height < 54" diamond?
  - (a) loop
- (b) String
- (c) main method
- (d) System.out
- (e) Boolean expression in an if

- 34. Why are flow charts useful?
  - (a) They provide details about the layout and colour scheme of the screens.
  - (b) They help programmers write comments for their code so debugging is easier.
  - (c) They are used in the Design phase of the PDLC to layout navigations in the program.
  - (d) They help design the details of the code, including input, output and processing.
  - (e) They help the programmer understand the memory structure of Strings and which char is in which location.
- 35. Which isn't a method in an applet?
  - (a) createImageIcon
- (b) main
- (c) actionPerformed
- (d) init

36	(a) JTe (b) JBu (c) JLa (d) JPi	extField itton ibel		ot needed by eded	this ten	it scre	een?			How many te	Ter	0000	×	
37	37. Which method is not needed to make this tent screen?  (a) Init (b) ActionPerformed (c) Main (d) CreateImageIcon													
38	(a) JT (b) JB	extField atton icture t	idget need	ds to be glob	al on the	e tent	screen	?		How ma	my tents?		Right?	
39.			mer disab	les buttons v	when the	ey sho	ould no	t be cli	cked, t	hey are us	sing this	prici	ole of good	user
	interfac (a)	e design. Visually Appealin	(b)	Clear Instructio	ons	(c)	Restri Input		(d)	Widget Arranger	nent	(e)	Error Handling	
40.			mer uses J	Buttons inst	ead of J	Гextfi	elds wl	hen pos	ssible,	they are u	sing thi	s pric	iple of good	d user
	interfac	e design. Visually Appealin	(b) g	Clear Instructio	ons	(c)	Restri Input		(d)	Widget Arranger	nent	(e)	Error Handling	
41.			mer provi	des clear titl	es on th	e top	of their	r screei	ns, they	y are usin	g this pi	riciple	of good us	er
	interfac (a)	e design. Visually Appealin	(b)	Clear Instructio	ons	(c)	Restri Input		(d)	Widget Arranger	nent	(e)	Error Handling	
42		ick that ha	s never b (b) zero	een used bef ·day	fore. (c) no	vel		(d) kid	die	(e) R	AM			
43.		night a co wnloading		n to keep vii (b) Typing		it of th Γextin	-	stem? (d) Pla	ıying g	ames	(e) Usir	ng the	internet	
44.	A worm (a) Blas	-		the 2003 pov Ion Orbit	wer outa (c) Lo	_	ıg	(d)	Stuxne	et (e	) Duqu			
45.	The had (a) Her	ker in con der	ntrol of a b (b) Presi		(c) Ma	aster		(d) K	ing-pir	n (e)	Robotei	r		
46.	A count (a) USA	-	ed by the I (b) Estor	Russian mafi nia	a's DDos (c) Ge			(	(d) Can	ada	(e) Fin	land		
47.	An attac (a) Phis		a herder ta (b) Bot-A	argets a web Attack	osite usir (c) Vii	_	otnet.	(	(d) D-D	<b>O</b> os	(e) Pha	armin	g	
48.	An inno (a) Vict		on who is (b) Herd	part of a bot er	net. (c) Ha	ıcker		(	(d) Bot		(e) Wa	tson		

49.	<ul><li>(a) Some things, I hackers to gai</li><li>(b) If you are care</li><li>(c) The internet i can't read the</li></ul>	ws how to hack we	nation and social and steal our files, ea complete secur pictures and texts	money re syste s. This	or on-line em that no c chings shou	presen one can ld be di	ce. hack. Than istributed se	is very useful. ecurely, so hacke	rs
50.	The name of the v (a) Duqu	vorm that attacked (b) Love bug	l Iran's nuclear pr (c) Botnet	ogram	(d) Blaster	ſ	(e) Stuxnet		
51.	An organization w	vho was the target (b) EQAO	of a DDos in 2016 (c) WonderBread		(d) Intel		(e) AGO		
52.	Rules for employe (a) Backup	ees restricting their (b) Air Gap	r behavior online. (c) Virus Sca		(d) Ne	etwork	Use Policy	(e) Firewall	
53.	. A security method where all incoming traffic is monitored for viruses.  (a) Firewall (b) Backup (c) Password (d) Biometrics (e) Audit Trail								
54.	<ul> <li>Why is Binary useful?</li> <li>(a) It makes nicer pictures on the screen.</li> <li>(b) It handles decimal numbers (eg. 12.3456) much better than base 10 does.</li> <li>(c) It is easier to store 0 or 1 on hardware (the one is on, the zero is off).</li> <li>(d) ASCII uses it.</li> <li>(e) Control structures and lists require binary to work.</li> </ul>								
55.		10110. How many (b) 8	y bits are needed ( (c) 5	to store (d) 2	e it?	(e) 0			
56.	•	How many bits do (b) 12	you have? (c) 24	(d) 12	88	(e) 25	6		
57.		re the number 35 i (b) 7	in binary, how ma (c) 8	ny bits (d) 9	do you nee	ed? (e) 10			
58.	-	re the number 130 (b) 5	in binary, how m (c) 6	any bi (d) 7	ts do you ne	eed? (e) 8			
59.	What is the upper (a) A	rcase letter than co (b) B	orresponds with the (c) C	his ASC (d) D		? (e) E			
50.	What ASCII letter (a) E	is this? 1000101 (b) e	(c) F	(d) D		(e) d			
51.	Is this an upperca (a) Uppercase	se or lowercase let (b) Lowercase	tter? 1000101 (c) Neither		(d) Bo	oth			
<b>62</b> .	<ul><li>(a) They provide</li><li>(b) They help pro</li><li>(c) They are used</li><li>(d) They help des</li></ul>	diagrams useful for details about the language of the details of the details of the programmer under the details of the detail	ayout and colour a omments for their se of the PDLC to he code, including	r code : layout g input,	so debuggin navigations output and	ng is eas in the I proces	program. ssing.	ar is in which loca	ation.

63.	<ul> <li>3. Why is Caesar Shift easy to hack?</li> <li>(a) Quantum computing has been developed to break the code.</li> <li>(b) There are one 26 possible keys, so a human can try them all easily.</li> <li>(c) It can be typed on a keyboard.</li> <li>(d) ASCII uses it.</li> <li>(e) It uses ifs and loops to create it.</li> </ul>								
64.	<ul> <li>4. Why is ASCII useful?</li> <li>(a) It encodes English letters into binary so computers can understand them.</li> <li>(b) It is encryption.</li> <li>(c) It is useful for security to prevent hackers gaining access to the files.</li> <li>(d) It is a form of networking, allowing the transmission of data.</li> <li>(e) It is used in Boolean expressions to determine if they are true or false.</li> </ul>								
65.	65. What does the 32-bit in ASCII tell you? (a) Uppercase or not (b) Unicode or not (c) Letter or not (d) Position in alphabet (e) Day of the week								
66		lated profession might Airline Attendant	involve fixing computers (c) Air Traffic Control	s? (d) Mechanio	c (e) Meteorologist				
67.	What is c.length(a) 0	)? String c = "cat (b)1	c"; (c) 2	(d) 3	(e) 4				
68.	What is c.charAt( (a) c	1)? String c = "ca (b)a	at"; (c) t	(d) 1	(e) error				
69.	What is c.charAt( (a) c	5)? String c = "ca (b) a	at"; (c) t	(d) 5	(e) error				
70.	What is c.charAt(	c.length()-1)? String (b) a	<pre>c = "cat"; (c) t</pre>	(d) 3	(e) error				
71.	What is c.replace (a) aea	('a','e')? String c = (b) cee	"cat"; (c) cet	(d) ect	(e) error				
72.	What is c.substrin	ng(0,1)? String c = (b) ca	"cat"; (c) cat	(d) a	(e) at				
73.	What is c.substrin	ng(0,2)? String c = (b) ca	"cat"; (c) cat	(d) a	(e) at				
74.	If a is "cat", evalu (a) true	ate a . equals ("DOG"  (b) false	·).						
75.	If a is "cat", evalu (a) true	ate!a.equals("cat (b) false	").						
76.	If a is "cat", evalu (a) true	ate a.equals("cat" (b) false	).						
77.	If a is "cat", evalu (a) true	ate a.equalsIgnore (b) false	·Case("CAT").						
78.	If a is "cat", evalu (a) true	ate a.compareTo("z (b) false	ebra")>0.						

- 79. If a is "cat", evaluate a.compareTo("bat")>0.
  - (a) true
- (b) false
- 80. If a is "cat", evaluate a . compareTo ("kangaroo") < 0.
  - (a) true
- (b) false
- 81. Which is false?
  - (a) The first number in the substring is the position of the starting character.
  - (b) The second number in the substring is the position of the ending character.
  - (c) The second number in the substring is the position AFTER the ending character.
  - (d) To replace one character with another in a String, use the replace function.
  - (e) Strings are a collection of characters.
- 82. Which is true?
  - (a) substring is a function that can pull out part of a String.
  - (b) To test if two Strings a and b are equal, you type a == b
  - (c) The number of characters in a String are found using the size function.
  - (d) Strings are a collection of doubles.
  - (e) None of the previous are true.
- 83. Define plaintext.
  - (a) Writing that is easily read.
  - (b) Writing that is encrypted.
  - (c) Writing that is sent between you and your bank using HTTPs on the internet.
  - (d) Writing that is used to log you into a secure system.
  - (e) None of the previous.
- 84. Define ciphertext.
  - (a) Encrypted writing.
  - (b) Decrypted writing.
  - (c) Writing that anyone can read without the key.
  - (d) Writing that is used in the newspaper.
  - (e) Writing that is used in emails.
- 85. Define encryption.
  - (a) Translating plaintext into ciphertext
  - (b) Translating ciphertext into plaintext
  - (c) Sending a message over the internet
  - (d) Writing a message in lemon juice.
  - (e) None of the previous.
- 86. Define decryption.
  - (a) Translating plaintext into ciphertext
  - (b) Translating ciphertext into plaintext
  - (c) Sending a message over the internet
  - (d) Hacking into a database.
- 87. Define key. (in encryption)
  - (a) Details about how the message is encrypted.
  - (b) The hacker's password into the database.
  - (c) The encrypted message.
  - (d) The decrypted message.
  - (e) All of the previous.

88.	<ul> <li>8. Who uses encryption?</li> <li>(a) You do when you use snapchat.</li> <li>(b) YouTube does when they want to stop sending out a video to a certain area.</li> <li>(c) Your bank when sending you details about your bank statement on-line.</li> <li>(d) Instagram does when you are sending pictures.</li> <li>(e) None of the above.</li> </ul>								
89.	Decrypt the follow (a) decryption	ving: fodszqujpo (b) computers	(c) character	(d) encryption	(e) statements				
90.	Decrypt the follow (a) victim	ving: rorrim (b) Watson	(c) duqu	(d) stuxnet	(e) mirror				
91.	Decrypt the follow (a) dog treat	ving: igpay atinlay (b) d-dos attack	(c) anonymous	(d) pig latin	(e) deep blue				
92.	Encrypt the follow (a) smaxe	ving using pig latin: exa (b) examslay	ams. (c) xamseay	(d) 5 23 1 14 24	(e) kadfax				
93.	Decrypt the follow (a) kitten	ving: 12 5 20 20 5 18 (b) butter	(c) letter	(d) middle	(e) weta digital				
94.	Which String function (a) toLowerCase	tion translates all of th (b) charAt	ne characters to capit (c) substring	tals? (d) toUpperCase	(e) length				
95.	Which String function (a) toLowerCase	tion pulls out a portion (b) charAt	n of a larger String? (c) substring	(d) toUpperCase	(e) length				
96.	Which String func (a) toLowerCase	tion pulls out a single (b) charAt	letters? (c) substring	(d) toUpperCase	(e) length				
97.	Which String function (a) toLowerCase	tion finds the size of th (b) charAt	ne String? (c) substring	(d) toUpperCase	(e) length				
98.	Which String func (a) toLowerCase	tion translates all of th (b) charAt		er case? (d) toUpperCase	(e) length				
99.	99. Why are String functions useful?  (a) They are ready made functions that allow you to pull apart a String, change it and test things about it.  (b) They can be used to make a game like 4Pics1Word.  (c) They can be used to re-format a name or address.  (d) We store lots of data in Strings and it is useful to be able to change it.  (e) All of the above.								
100	100. Why should you learn to program?								

- (a) Because the singularity is coming and you want to be able to communicate with our new masters.
- (b) Because it is a dying art like knitting and cooking and it needs preserving.
- (c) Because computers are being used everywhere and it will be useful in your future jobs.
- (d) Because there are videos that tell you that you should on the internet.
- (e) Because Ms. Gorski says so.