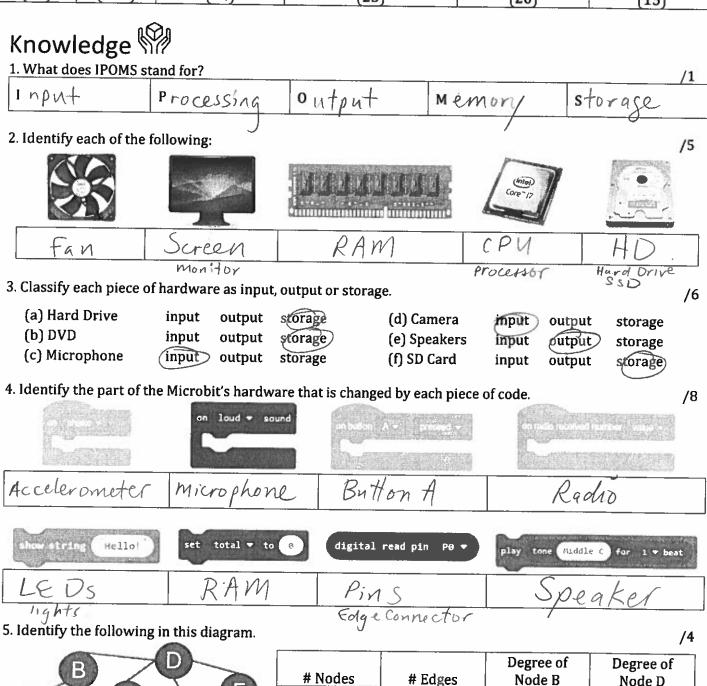
Unit 1 - ICD2O - Hardware & Network Intro Sample Test: September 19, 2024

Name: Gorski

Total	%	Knowledge	Communication 🔆	Application 🕞	Thinking *
	•0				
(82)	(100)	(24)	(23)	(20)	(15)



Node D

	و ۵
Communication	\mathcal{Q}_{o}
communication	0 0

Printer		cription.				/10
1 1 1 1 1 1 1 1		(a)	An output de	vice that pr	oduces a paper copy.	, 20
Keybourd		(b)	An input dev	ice for lette	rs and words.	
Touchscreen	1	(c)	A device that	is both inp	ut AND output.	
Motherboar		(d)	The board th	at holds the	CPU, RAM and ROM.	
Euler		(e)	On a graph, a	path travel	ling over all edges onc	e, never repeating.
E-Waste		(f)			ters away, they become	
18 months	<u> </u>	(g)			time for computing po	
Sna O Circu	its	(h)			cuits that can easily be	
- Many Possil	b6-	(i)	A company w			Apple, Twitter, lastage
Many Poss,	ble -	(j)	A metal used	to build a co	omputer. Gulol, Silv if you ca	er, Tin, "basically, in name a metal computer
(a) Using your	(b) Typin		(c) Using	a	(d) Texting for	(a) Using your
headset at max	keyboard	at a	Nintendo	console	hours and hours	(e) Using your phone right before
volume.	strange a		without a	22	each day.	you go to bed.
linging Ears	Carpal	Tunne	el Nintende	Thumb	Texter's Finger	Trouble Sleeping
A student has well-		. ((7.4.7)		_	J	
ou should recycle y				recycle you	r computer?" Mark the	eir response. /2
n the hardware pol vater will become d	lrinking w	ater for	nearby	The rea	INT is first. It uses the word son in the POINT is concise all that follows it.	and clear. It relates to
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(a)

10. Circle all pieces of hardware that apply to the description.

Bot L1 RAM ROM HD RAM ROM HD ROM RAM HD

(c) Boots the computer. (d) Where open pictures are held. (e) The smallest storage capacity.

On the motherboard.

(b) Where you save your work.

RAMD RAM RAM

ROM ŔOM ROM HD HD HD

Works with the CPU to do calculations. (f)

11. For each number on the diagram, how would you fix the ergonomic problem?



the diagram, how would you fix the ergonomic problem?					
	#	Fix	′ .		
	1	Back is not straight			
		Sit up at a 90° with logs to prevent back strain			
S	2	Hands in a claw position			
		Flatten hands to prevent carnel tunnol			
İ	3	Eyes are too close to monitor.			
		more monitor back to nevent ever strain			
	4	More monitor back to prevent eye strain Feet are not flat on ground.			
		Use foot rest to prevent numb legs			
the type of the computer					

12. Match the users with the type of the computer.

User Categories: Film Editor Regular Home User Students at School

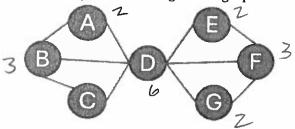
Computer A RAM: 4 GB CPU: 2 GHz HD: 1 TB

Computer B RAM: 1 GB CPU: 1.6 GHz HD: 256 GB Regular Home User Students at School

Computer C RAM: 8 GB CPU: 3.4 GHz HD: 2 TB

13. Identify the following in this graph.

Match:



a) # Nodes with Odd Degree	2
b) # Nodes with Even Degree	5
c) Has an Euler Path? (y/n)	У

14. This is a map of a city with some bridges crossing a river. Draw a graph to represent this situation. Also, is it possible to find a single path that can cross all bridges once without repeating?

/4

/3

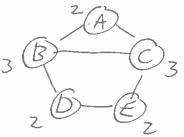
/3

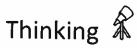
/6



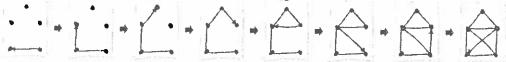
Does it have a path of all bridges? $(y/n) \dots \sqrt{\dots}$

☐ Below, draw a graph to represent the city.





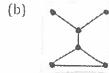
15.Zhi creates pictures by drawing dots and then connecting them with line segments in one motion, never picking up his pencil and never drawing the same line segment twice. This is how Zhi draws a house:

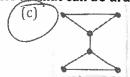


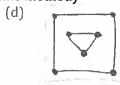
Which of the following pictures can Zhi draw? (circle all that can be drawn in this method)

/2









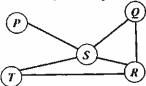
16. A map of five towns (black dots) and four highways (lines) is shown.

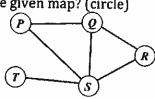
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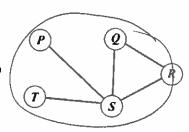
To represent this map using a diagram, there is one labelled circle per town and the following is true for every two towns:

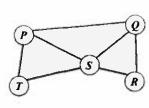
- If you can drive from one town to the other using one of the four highways, then a straight line joins their circles.
- If you cannot drive from one town to the other using one of the four highways, then no straight line joins their circles.

Which diagram represents the given map? (circle)



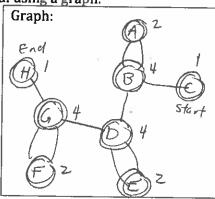






17. Draw this balloon animal using a graph.

(Nodes Marked)



Why must it have an Euler path?

Think of the one balloon as being the single path over all bridges. The balloon twists are similar to the robundabout nature of the path. The 2 odd nodes are the start and and of the balloon

18. Draw a graph using the following clues. Edges should be straight and they should not cross.

Use the room names inside the nodes.

/6

/5

Clues:

- The Hall has 4 doorways.
- The Basement has a door to every room except the Hall and the Closet.
- The Closet can be reached by 3 doors, including one in the Foyer and another in the Library.
- There are 2 rooms with an even degree and all of the others have an odd number of connections.
- You can't get to the Closet from the Kitchen.

