Question 1	(31 marks)

(a)	Describe the key difference between sensation and perception.	(2 marks)

Greu is invited to an art show and is particularly interested in one piece of art, a square painting of a tall tree in the middle of a field.

(b) Perceiving a sensation is a six stage process. Complete the table below outlining the **six** stages that Greu experienced when viewing the artwork. (11 marks)

Process	Definition	Application to Greu
	Sensory receptors detect presence of a stimulus	
Transmission	Neural impulses leave sensory organs and travel to the brain	Electrochemical message of light stimulus is sent to the brain
		Greu chooses which parts of the stimuli to pay attention to (e.g. Greu focuses on the art and not the wall)
Organisation		
	Give meaning to sensory stimuli	

Colin attends a cocktail party and is discussing psychology with Mwarga. He is very interested in the conversation until Mwarga starts talking about her dogs. Colin is not interested in dogs and realises the couple next to them are now talking in Farsi. He begins to wonder how long ago their conversation changed from English and no longer hears what Mwarga is saying as he listens to them.

One:					
Two:					
1WO					
Using your under	retanding of the	'Cocktail nart	v effect' and th	e evample of (Colin from
part (c), describe					
					(2 r

Question 1 (continued)

In order to conduct research to test the cocktail party effect, Cherry had to select participants. Two possible methods of sampling participants include convenience sampling and random sampling.

6

limitation for each type of sampling.	(4 marks
Convenience sampling:	
Strength or limitation (circle which)	
Random sampling:	
Strength or limitation (circle which)	
	Convenience sampling: Strength or limitation (circle which) Random sampling:

(f)

(i)

A Year 12 classroom teacher wanted her students to explore the phenomenon of the Cocktail party effect.

The teacher randomly allocated her 26 students into one of two groups. Students in each group were required to listen to two different stories simultaneously, read to them in both their left and right ears.

Group 1 were told to listen only to the story in their left ear. Group 2 were told to listen to the stories they heard in their left and right ears.

After the stories were read, the teacher gave each student a memory recall test to measure the amount of information they retained from the stories they heard.

f)	(i)	Identify the independent variable for this experiment.	(1 mark)
	(ii)	Propose a directional hypothesis for the teacher's experiment.	(4 marks)
g)		ose one participant related extraneous variable that may affect the results ibe how it could affect the results of the experiment.	and (3 marks)
		ole:	
	Desci	ription:	

Question 2	(20 marks)
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A lot has been learnt about the brain through the study of Henry Molaison (HM).

(a)	Identify the type of study performed with patient HM and describe this type of researc		
	design.	(3 marks)	

(b) Complete the table below stating **two** strengths and **two** limitations to the type of research design identified in part (a). (4 marks)

	Strength	Limitation
One		
Two		

SAMF	PLE EXAMINATION ONE	9	PSYCHOLOGY
(c)	Explain the findings from the hippocampus in the formation		rds to the role of the (3 marks)
Until h	is death, HM consented to par	ticipate in a wide range of r	esearch studies.
(d)	State three pieces of informa	tion needed in order for info	ormed consent to be given. (3 marks)
	One:		
(e)	Apply the ethical guideline of	ʻwithdrawal rights' to HM aı	nd the studies he participated in. (3 marks)

Question 2 (continued)

	Darius is a taxi dri	ver in London who	suffers damage to h	nis hippocampus
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)	Summarise why damage to Darius's hippocampus will cause issues in his cho	
	occupation.	(4 marks)

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Question 3 (26 marks)

(a)	Define the terms 'recall', 'recognition' and 're-learning' in the context of memory.				
	Recall:				
	Recognition:				
	Re-learning:				
(b)	State one similarity between recall, recognition and re-learning in memory.	(1 mark)			

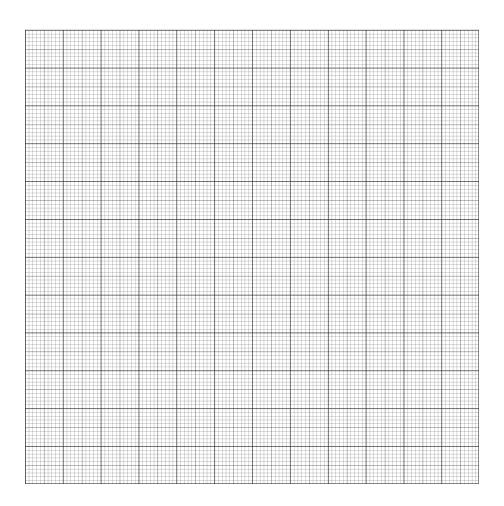
In an experiment comparing serial, free and cued recall, 30 participants were presented a word list of 20 words. Five minutes after they had finished reading the word list, 10 participants were asked to use serial recall, 10 were asked to use free recall and 10 were asked to use cued recall to try to remember the word list. The table of the raw data can be seen below.

	Number of words recalled			
Participant	Serial recall	Free recall	Cued recall	
1	3	9	15	
2	5	11	15	
3	4	7	15	
4	2	14	17	
5	6	11	13	
6	5	8	15	
7	6	9	16	
8	3	7	17	
9	4	11	14	
10	2	3	16	
Median			15	

(c) Calculate the median for the serial and free recall groups, record your answers in the table above. (2 marks)

- (d) State why it can be useful to use the median as a measure of central tendency instead of the mean.

 (1 mark)
- (e) Construct an appropriate graph using the median scores from the completed table on page 12. (5 marks)



A spare grid is provided at the end of this Question/Answer booklet. If you need to use it, cross out this attempt and indicate that you have redrawn it on the spare page.

Question 3 (continued)

(f)	Using your psychological knowledge and understanding of recall, propose why the recall group median is higher than the serial recall group median in the table on page (3					
	and Tulving (1975) created a study that aimed to investigate how deep and shall essing affects memory recall.	ow				
(g)	Name and outline the two forms of deep processing.	(4 marks)				
	One:					
	Two:					
(h)	Recall one example of a question used in the method for each of the three level processing by Craik and Tulving (1975).	els of (3 marks)				
	Shallow (structural):					
	Shallow (phenomic):					
	Deep:					

i)	Describe two limitations or criticisms of Craik and Tulving's (1975) study regarding of processing.	ng depth (4 marks)
	One:	
	Two:	

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PSYCHOLOGY

SAMPLE EXAMINATION ONE

Question 4 (17 marks)

Jane was a highly motivated art student who had won several competitions and was proud of her accomplishments. While her family was moving to a new home, Jane lost her valuable art paints. At her new school, she struggled to regain her interest in art. Some days, she did not eat because she would forget to pack her lunchbox and, if she was very hungry, she would jump the school fence to go to the burger shop to buy food. She did not care when she got suspended from school and her parents found it difficult to understand why she was so unmotivated.

(a) Using the above scenario, identify **two** deficiency needs from Maslow's Hierarchy of Needs (1954), one from before she moved, and one from after she moved, and outline how each effected Jane's motivation. (4 marks)

	Need	How it affected Jane's motivation	
Before			
After			

(b)	With reference to the scenario, suggest why Jane began to engage in dangerous		
` ,	activities such as jumping a fence.	(2 marks)	
Jane	has not yet reached self-actualisation.		
(c)	Describe what is meant by 'self-actualisation'.	(2 marks)	

SAMPLE EXAMINATION ONE

(d)	List four characteristics of a person who has reached self-actualisation according to Maslow (1954). (4 marks
	One:
	Two:
	Three:
	Four:
	ow expanded on the hierarchy of needs in 1970, adding three more needs; cognitive, netic, and transcendence needs. Demonstrate the position of cognitive needs in the hierarchy by stating the needs directly
	above and below it on Maslow's hierarchy. (2 marks) Above:
	Below:
(f)	Summarise three characteristics of an individual who has met their cognitive needs. (3 marks)
	One:
	Two:
	Three:

17

PSYCHOLOGY

Question 5 (29 marks)

He et a	al. (2020) conducted a study looking at the effect of restricting mobile phone us	se on a
numbe	er of factors.	
(a)	Identify one participant variable that was controlled in this study	(1 mark)

) id		y One participant variable that was controlled in this study.	(Tillalk)
hich is a	a 20	nood, He et al. (2020) used the Positive and Negative Affect Schedule -item scale for measuring the positive and negative effects of bedtime r a 5-point Likert scale.	
) (i))	State whether the data collection method is qualitative or quantitative reasoning for your answer.	and provide (2 marks)
(ii)	Outline the difference between subjective and objective data, and star of data the PANAS collects.	te what type (3 marks)
(ii	i)	State one limitation of using a scale such as the PANAS.	(1 mark)

One sleep cycle usually repeats every 90 to 110 minutes.

- (c) (i) State what NREM stands for in the sleep cycle. (1 mark)
 - (ii) Complete the table below identifying **four** stages of sleep and their characteristics. (8 marks)

	Characteristics at stages of sleep			
Stage	Heart rate	Sleep state	Muscle tension	
NREM 1	Normal			
NREM 2	Slowed		Relaxed	
NREM 3		Deep sleep	Very relaxed, hard to wake	

Question 5 (continued)

Jillian and Habiba are both in Year 12 and are studying Psychology at school. Both feel they are suffering partial sleep deprivation and find the sleep part of the course very interesting. Following their learning, Jillian decides to improve her sleep hygiene while Habiba does not make any changes.

(d) List **two** psychological and **two** physiological effects both girls may have experienced from partial sleep deprivation. (4 marks)

	Psychological effect	Physiological effect
One		
Two		

(e)	State three possible impacts on Habiba if she does not change her sleep b	ehaviour and
	develops chronic sleep deprivation.	(3 marks)

One:			
Two:			
Three:			

SAM	IPLE EXAMINATION ONE	21	PSYC	CHOLOGY
(f)	Describe three techniques Jillia	an could utilise to improve her	sleep hygiene.	(6 marks)
	One:			
	Two:			
	Three:			

End of Section One