



**SECTION A – Multiple-choice questions****Instructions for Section A**

There are **15** questions for each of the three areas of study.  
Answer **all** questions in pencil on the answer sheet provided for multiple-choice questions.  
Choose the response that is **correct** or that **best answers** the question.  
A correct answer scores 1, an incorrect answer scores 0.  
Marks will **not** be deducted for incorrect answers.  
No marks will be given if more than one answer is completed for any question.

**AREA OF STUDY 1 – MEMORY****Question 1**

If you have a tip-of-the-tongue experience, you would probably be unable to immediately \_\_\_\_\_ the word you were trying to remember.

- A. recall
- B. reread
- C. relearn
- D. recognise

**Question 2**

Which sequence represents the flow of information following a training experience?

- A. storage → encoding → retrieval
- B. retrieval → encoding → storage
- C. encoding → storage → retrieval
- D. storage → retrieval → encoding

*Questions 3, 4 and 5 relate to the following information*

Marcus has just started a part-time job in a plant nursery.

On his first day, he was given a list of 20 common plant names and asked to learn them. He spent some time learning this list. At the start of his next shift, his boss gave him two tasks.

**Task 1:** Marcus was asked to write down as many of the plant names as he could remember from the original list.

Marcus was then given a short break before completing Task 2.

**Task 2:** Marcus was given a list of 50 common plant names, including the previous 20 plant names from the original list, and asked to circle the plants that were on the original list.

After completing the tasks, Marcus was then given the original list again and asked to study it again. The following week he repeated the two tasks.

**Question 3**

Task 1 was a \_\_\_\_\_ task while Task 2 was a \_\_\_\_\_ task.

- A. relearning; recall
- B. recognition; recall
- C. recall; recognition
- D. recognition; relearning

**Question 4**

Which of the following statements is most likely to be correct?

- A. Repeating Task 1 a week later is a more sensitive measure of retention than the original Task 1.
- B. Repeating Task 2 a week later is a less sensitive measure of retention than the original Task 2.
- C. Task 1 is a more sensitive measure of retention than Task 2.
- D. Tasks 1 and 2 are both relearning tasks.

**Question 5**

Marcus spent less time relearning the list the second time.

His boss could calculate the savings score by using which of the following equations?

- A.  $\frac{\text{number of original repetitions} - \text{number of relearning trials}}{\text{number of relearning trials}} \times 100$
- B.  $\frac{\text{time for original learning} - \text{time for relearning}}{\text{time for original learning}} \times 100$
- C.  $\frac{\text{time for relearning} - \text{time for original learning}}{\text{time for original learning}} \times 100$
- D.  $\frac{\text{time for relearning} - \text{time for original learning}}{\text{time for relearning}} \times 100$

**Question 6**

Anwar has just turned off his alarm clock yet he can still hear the sound of it ringing.

This effect is due to \_\_\_\_\_ memory.

- A. episodic
- B. working
- C. iconic
- D. echoic

**Question 7**

Visual and auditory stimuli are first registered in our

- A. short-term memory.
- B. long-term memory.
- C. sensory memory.
- D. iconic memory.

**Question 8**

Procedural memory is the memory used for

- A. riding a bike.
- B. fixing a tyre puncture.
- C. knowing the names of famous cyclists.
- D. remembering the road rules for cyclists.

**Question 9**

Maintenance rehearsal involves

- A. relating new information to previously learned information.
- B. transferring the information from STM to LTM.
- C. repetition of information in LTM.
- D. repetition of information in STM.

**Question 10**

Which of the following statements about semantic network theory is correct?

- A. the stronger the association, the quicker the retrieval
- B. the stronger the association, the slower the retrieval
- C. the weaker the association, the longer the retention
- D. the weaker the association, the shorter the retention

**Question 11**

Ebbinghaus' early studies on forgetting noted that most material is forgotten

- A. slowly at first but at a rapid rate from 7 days after learning.
- B. at a steady rate for the first month after learning.
- C. between 8 and 24 hours after learning.
- D. soon after learning.

**Question 12**

Sam was involved in a car accident in which he hit his head. As a result he was unable to remember anything about the few days **before** the accident.

Sam is suffering from

- A. Alzheimer's disease.
- B. retrograde amnesia.
- C. anterograde amnesia.
- D. retroactive interference.

**Question 13**

In Godden and Baddeley's study of context-dependent memory cueing, divers were asked to learn a list of words either underwater or on land. They were then asked to recall the words when they were either underwater or on land.

The results indicated that

- A. the divers recalled the same amount of information in either context.
- B. the greater the similarity between the two conditions the stronger the effect of context.
- C. material retrieved in one context was better recalled if it was learned in the same context.
- D. material learned in one context was better recalled if it was retrieved in a different context.

**Question 14**

Your grandfather can recall very well what happened during his experiences in World War II. However, he can not remember who won the football last Saturday.

This is strong evidence **against** which one of the following explanations of forgetting?

- A. decay theory
- B. interference theory
- C. retrieval failure
- D. motivated forgetting

**Question 15**

People sometimes use the phrase Never Eat Soggy Wheaties to remember compass directions.

This is an example of the mnemonic of

- A. narrative chaining.
- B. method of loci.
- C. an acronym.
- D. acrostics.

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**AREA OF STUDY 2 – LEARNING****Question 16**

A fixed action pattern is demonstrated by

- A. brushing your teeth.
- B. a spider spinning a web.
- C. a baby learning to crawl.
- D. pulling your hand from a hot stove.

**Question 17**

In Pavlov's experiment on salivation in dogs, the neutral stimulus was \_\_\_\_\_ and the conditioned stimulus was \_\_\_\_\_.

- A. the bell; the bell
- B. the bell; salivation
- C. the meat powder; the bell
- D. the meat powder; salivation

**Question 18**

In classical conditioning, learning takes place by association.

This means that an association forms between two events that

- A. are similar in nature.
- B. are completely unrelated.
- C. have similar consequences.
- D. occur closely together in time.

**Question 19**

In operant conditioning, negative reinforcement involves

- A. removing an aversive stimulus and so increasing the likelihood of a response occurring.
- B. removing an aversive stimulus and so decreasing the likelihood of a response occurring.
- C. providing a stimulus and so increasing the likelihood of a response occurring.
- D. providing a stimulus and so decreasing the likelihood of a response occurring.

**Question 20**

Mary's two-year-old son frequently had tantrums. Mary decided to seek the help of a therapist.

The therapist suggested that Mary should ignore her son while he was screaming and yelling and when he was calm she should talk reassuringly to him and give him a hug.

Mary was using the principles of \_\_\_\_\_ to change her son's behaviour. The giving of a hug is an example of \_\_\_\_\_.

- A. operant conditioning; positive reinforcement
- B. operant conditioning; negative reinforcement
- C. classical conditioning; positive reinforcement
- D. classical conditioning; negative reinforcement

**Question 21**

Collette was bitten by a rat when she was four years old. On her 12th birthday, one of her friends bought her a pair of white mice. However, Collette was so afraid of the mice that they had to be returned to the pet shop.

Collette's fear of mice was due to

- A. extinction.
- B. observational learning.
- C. stimulus generalisation.
- D. stimulus discrimination.

**Question 22**

Robert has learnt to ask his mother for extra pocket money only when she is in a good mood.

Robert's behaviour is an example of

- A. shaping.
- B. stimulus generalisation.
- C. unconditioned stimulus.
- D. stimulus discrimination.

**Question 23**

Consequences that strengthen responses due to escape from or avoidance of unpleasant stimuli are \_\_\_\_\_ reinforcers.

- A. negative
- B. positive
- C. primary
- D. secondary

**Question 24**

Suzy's dog tries to dig in her indoor pot plants and often knocks them over. Each time the dog knocks over a plant Suzy locks the dog in the laundry for a few minutes.

The consequence for the dog, which is applied by Suzy, is a \_\_\_\_\_ because she is trying to \_\_\_\_\_.

- A. punishment; decrease the likelihood of a response occurring
- B. punishment; increase the likelihood of a response occurring
- C. negative reinforcement; decrease the likelihood of a response occurring
- D. negative reinforcement; increase the likelihood of a response occurring

**Question 25**

Which one of the following statements about the use of punishment as a reinforcement technique is correct?

- A. punishment has no effect on the behaviour
- B. punishment may inadvertently act as a reinforcer
- C. punishment decreases the frequency of desirable behaviours
- D. punishment decreases the likelihood of avoidance behaviour

**Question 26**

Behaviours acquired by the \_\_\_\_\_ schedule of reinforcement are learned quickly and maintain a maximal rate of responding.

- A. fixed ratio
- B. fixed interval
- C. variable ratio
- D. variable interval

**Question 27**

A soft-drink vending machine operates on a \_\_\_\_\_ reinforcement schedule, while a gaming machine operates on a \_\_\_\_\_ reinforcement schedule.

- A. variable ratio; fixed interval
- B. fixed ratio; variable interval
- C. partial; continuous
- D. continuous; partial

**Question 28**

Bandura's famous 'bobo doll' study on observational learning indicates that aggressive behaviour is affected in all of the following examples **except** one.

- A. Aggressive behaviour increases when the model is rewarded.
- B. Aggressive behaviour decreases when the model is punished.
- C. Aggressive behaviour increases when the observer is rewarded.
- D. Aggressive behaviour decreases when the observer is punished.

**Question 29**

A few weeks ago, when Louis took his girlfriend to the local nightclub, they had a serious argument and his girlfriend broke up with him. They are now back together but whenever Louis returns to the same nightclub with his girlfriend he feels very nervous and gets 'butterflies' in his stomach. Louis' feelings on returning to the nightclub are due to

- A. insight learning.
- B. operant conditioning.
- C. classical conditioning.
- D. observational learning.

**Question 30**

Baseball talent scouts are interested in discovering if an Australian test cricketer is able to use his bowling skills when pitching a baseball.

The cricketer has no previous experience of baseball. The talent scouts want to discover if his \_\_\_\_\_ set for cricket will allow \_\_\_\_\_ transfer of skills to baseball, thus enabling him to pitch very well.

- A. mental; positive
- B. mental; negative
- C. learning; negative
- D. learning; positive

**AREA OF STUDY 3 – RESEARCH METHODS****Question 31**

In which of the following types of research study does the experimenter have the most **control** over the participants?

- A. in-depth interview
- B. correlational study
- C. experimental study
- D. naturalistic observation

**Question 32**

In a repeated measures design

- A. different participants are used in both the control and experimental conditions.
- B. the same participants are used in both the control and experimental conditions.
- C. different participants with similar characteristics are used in both the control and experimental conditions.
- D. the same participants are used in one trial of both the control and experimental conditions and different participants are then used in subsequent trials.

**Question 33**

In research into drugs that modify behaviour, a placebo controls for

- A. experimental error.
- B. experimental procedure.
- C. participants' expectations.
- D. experimenter expectations.

**Question 34**

Which of the following statements can be most accurately concluded from a correlation of  $-0.85$  between hours of television watched and level of happiness?

- A. Happy people watch a lot of television.
- B. Unhappy people watch a lot of television.
- C. Watching television makes people happy.
- D. Watching television makes people unhappy.

*Questions 35 – 40 relate to the following information*

Dr Vogel is studying the effects of caffeine on behaviour. She deprives 30 first-year university students of sleep for 24 hours before the experiment begins. She divides her participants into two groups of 15 by picking their names out of a hat.

**Experimental Group**

The 15 students in the experimental group are given a capsule containing a dose of caffeine equivalent to five cups of strong coffee.

**Control Group**

The other group is given an apparently identical capsule containing powdered sugar only.

The students are then tested on their ability to perform a number of complex arithmetic problems.

**Question 35**

The independent variable of the experiment is

- A. mental alertness.
- B. hours of sleep deprivation.
- C. amount of caffeine consumed.
- D. performance on complex arithmetic problems.

**Question 36**

The dependent variable of the experiment is

- A. mental alertness.
- B. hours of sleep deprivation.
- C. amount of caffeine consumed.
- D. performance on complex arithmetic problems.

**Question 37**

A confounding variable that was not controlled in the study may have been the

- A. gender of the participants.
- B. education of the participants.
- C. level of fatigue of the participants.
- D. amount of caffeine consumed by the participants.

**Question 38**

The control participants received \_\_\_\_\_ while the experimental participants received \_\_\_\_\_.

- A. caffeine; powdered sugar
- B. powdered sugar; caffeine
- C. complex problems; simple problems
- D. simple problems; complex problems

**Question 39**

What design was used in Dr Vogel's study?

- A. correlational
- B. matched subjects
- C. independent groups
- D. repeated measures

**Question 40**

Which of the following procedures could best improve Dr Vogel's study?

- A. single blind
- B. double blind
- C. random sample
- D. placebo-controlled

**Question 41**

A psychologist was studying the leisure activities of primary school students. In order to choose participants, the psychologist selected a random age sample of students from each class level. This sample was in the same proportion that the age groups occur in the target population.

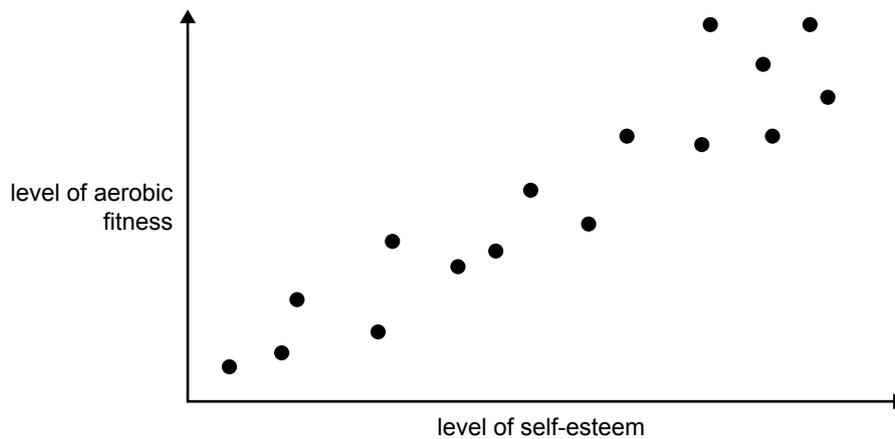
This method of selecting participants is known as

- A. random sampling.
- B. stratified sampling.
- C. participant allocation.
- D. stratified random sampling.

**Question 42**

Which of the following statements is the best example of an operational hypothesis?

- A. that most young people, especially those under 30 years of age, consume a lot of alcohol
- B. that young people in the 18 to 25 year age group consume more alcohol each week than people in the 40 to 45 year age group
- C. that most young people, especially those under 30 years of age, drink alcohol and drive cars while under the influence
- D. that young people in the 18 to 25 year age group consume more alcohol today than in earlier decades

**Question 43**

Which of the following statements best describes the results in the graph above?

- A. There is a strong positive correlation between the two variables.
- B. There is a weak positive correlation between the two variables.
- C. There is a strong negative correlation between the two variables.
- D. There is a weak negative correlation between the two variables.

**Question 44**

Philip Zimbardo conducted research into role expectations. In this research Zimbardo recruited volunteers and then allocated them to play the roles of either prisoners or prison guards. During the experiment some of the participants became distressed and wanted to quit the experiment. Zimbardo, however, insisted that the participants continue.

Which of the ethical guidelines that now govern psychological research did this experiment disregard?

- A. deception
- B. informed consent
- C. withdrawal rights
- D. voluntary participation

**Question 45**

Researchers debrief participants by informing them of

- A. the names of the other participants in the study.
- B. the right to withdraw from the study at any time.
- C. the nature and reason for any deception that was used.
- D. the details of why the chosen statistical analysis was used in the experiment.

**SECTION B – Short-answer questions****Instructions for Section B**

Answer **all** questions in the spaces provided.

**AREA OF STUDY 1 – MEMORY****Question 1**

- a. Research findings indicate that for most people the duration (in seconds) of short-term memory, without rehearsal, is up to

\_\_\_\_\_ 1 mark

- b. Describe what the process of chunking involves and provide an appropriate example.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ 2 marks

**Question 2**

At the beginning of class, Mr Foster read out a list of 15 unrelated words. The students were told to listen carefully and try to remember the list. Immediately afterwards Mr Foster asked the students to write down as many words as they could remember from the list.

- a. i. Which part of the word list (initial, middle and/or end of list) would the students be most likely to remember?

\_\_\_\_\_  
 ii. Why?  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

1 + 2 = 3 marks

The students were not given another opportunity to rehearse the word list.

- b. Which part of the word list (initial, middle and/or end of list) would the students be most likely to recall 24 hours later?

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1 mark

**Question 3**

Nina had a long conversation over the phone with her friend. When she finished, Nina tripped and fell heavily. She was knocked unconscious and ended up in hospital. According to the consolidation theory, Nina would not be expected to remember the telephone conversation when she regained consciousness.

Why?

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2 marks

**Question 4**

In which form of long-term memory would the following pieces of information be stored?

Indicate your answer by placing a tick (✓) in the correct boxes.

	Episodic	Semantic	Procedural
i. your name			
ii. how to knit			
iii. your seat on an aeroplane			

3 marks

**Question 5**

- a. The term that Sigmund Freud used to describe the process of unconsciously removing a distressing memory from conscious awareness is

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1 mark

Forgetting can be due to proactive interference.

- b. Describe proactive interference and give an example.

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2 marks

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**AREA OF STUDY 2 – LEARNING**

**Question 6**

Lucy has decided to start training her daughter Susie, aged 5, to tie her shoe laces.

Lucy decides to use the shaping principle of operant conditioning when training Susie.

a. Describe how Lucy might use this principle while training her daughter.

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1 mark

Unfortunately the approach used did not result in Susie learning how to tie her shoe laces without help. Lucy then decided to use the principle of observational learning when training Susie.

b. Describe how Lucy might use this principle while training her daughter.

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1 mark

**Question 7**

Identify three differences between classical and operant conditioning by ticking the correct terms in the table below.

	Classical conditioning		Operant conditioning	
Role of the learner	passive	<input type="checkbox"/>	passive	<input type="checkbox"/>
	active	<input type="checkbox"/>	active	<input type="checkbox"/>
	both passive and active	<input type="checkbox"/>	both passive and active	<input type="checkbox"/>
Nature of the response	voluntary	<input type="checkbox"/>	voluntary	<input type="checkbox"/>
	involuntary	<input type="checkbox"/>	involuntary	<input type="checkbox"/>
	both voluntary and involuntary	<input type="checkbox"/>	both voluntary and involuntary	<input type="checkbox"/>
Timing of the response	after the stimulus	<input type="checkbox"/>	after the stimulus	<input type="checkbox"/>
	before the stimulus	<input type="checkbox"/>	before the stimulus	<input type="checkbox"/>
	during the stimulus	<input type="checkbox"/>	during the stimulus	<input type="checkbox"/>

3 marks

**Question 8**

The method of successive approximations is often used in animal training. Explain how this method is used to train an animal to perform a task. Give an example.

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2 marks

**Question 9**

Name and define the four steps that occur in insight learning.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

3 marks

**Question 10**

Describe two features of insight learning that distinguish it from other types of learning such as classical or operant conditioning.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

2 marks

**Question 11**

Little Albert is now 17 years old. He comes to you for therapy regarding his 'problem' with white rats.

Name and describe a learning process you could use to help Albert overcome his fear.

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3 marks

**AREA OF STUDY 3 – RESEARCH METHODS**

**Question 12**

a. What are inferential statistics?

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1 mark

b. When are inferential statistics useful in data analysis?

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1 mark

c. What implications can researchers draw from data analysis where inferential statistics are used?

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1 mark

**Question 13**

Health researchers have known for a long time that there is a link between foods which have a high fat content and the risk of atherosclerosis (a form of heart disease). Food manufacturers have seen a marketing opportunity and developed foods that are low in fats but still taste good.

One example of this is yoghurt. Traditionally yoghurt was made from whole milk. Now there are many varieties of yoghurt from 'no fat' to 'low fat' including the traditional 'whole milk' variety.

A group of psychology students wanted to investigate whether or not people who bought low fat yoghurt thought that it tasted as good as the traditional whole milk yoghurt.

- a. State a hypothesis for examining this issue in operational terms.

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1 mark

The students used the repeated measures design.

- b. State **two benefits** of using this design.

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2 marks

**Question 14**

- a. What is counterbalancing?

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1 mark

- b. Explain why it is used.

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2 marks

**Question 15**

**Contrast** the conclusions that can be drawn from a study that measures the correlation between variables with a study that uses a full experimental design.

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2 marks

**Question 16**

Name an ethical practice in the conduct of psychological research. Describe how disregarding this ethical consideration might lead to invalidity of the data gathered from the study.

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2 marks

**Question 17**

What is the difference between random allocation and random sampling?

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2 marks