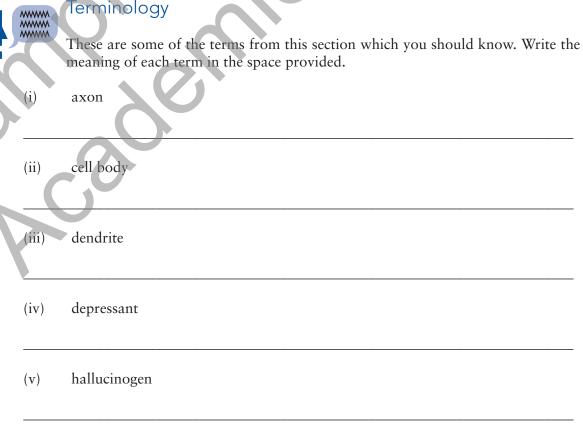


Syllabus Checklist

On completion of this chapter you should be able to understand:

- 2.1 Biological influences/bases of behaviour
- functions of the major parts of the brain
 - hindbrain
 - midbrain
 - forebrain
 - left and right hemispheres
 - corpus callosum
- main features of the four lobes of the cerebral cortex
 - structure of the neuron
 - cell body
 - axon
 - dendrites
 - myelin sheath
- methods for investigating brain function
 - external recordings electroencephalography (EEG)
 - scanning techniques
 - still pictures: computed axial tomography (CAT) scan, magnetic resonance imaging (MRI)
 - dynamic pictures functional magnetic resonance imaging (FMRI), position emission tomography (PET) scan
 - case study Phineas Gage

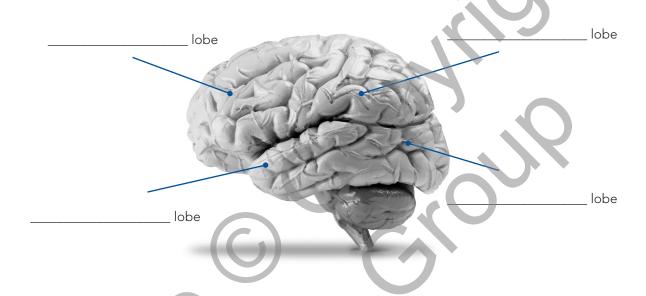
	factors that affect behaviour, emotion and thought
	physical activity
	 psychological and physiological responses to recreational drugs – cannabis, alcohol and amphetamine
2.2	Cognition
	theories of intelligence
	general intelligence – Galton, Spearman
	measuring mental age and intelligence quotient – Binet and Simon, Terman
	empirical approaches to intelligence – Wechsler
	multiple intelligences – Gardner
	emotional intelligence – Golman
	intelligence testing
	advantages and disadvantages of group and individual testing
	the role of sensation and perception in cognition
	sensory organs and stimuli
	perception – illusions and distortions of visual perception
	attention – selected, divided, habituation, dishabituation
	physiological responses indicating different states of consciousness
	electrical activity of the brain
	heart rate
	body temperature
	galvanic skin response
В	IOLOGICAL INFLUENCES/BASES OF BEHAVIOUR
D	IOLOGICAL INITUENCES/DASES OF BEHAVIOUR



	(vi)	myelin sheath
	(vii)	physical activity
	(viii)	stimulant
	(ix)	recreational drug
Revie		rain
	_\	
	Corpu	us callosum

phere of the brain controls of the left and right hemis	ody and vice versa.

3. Label the four lobes of the cerebral cortex.



4. Describe the functions of each lobe of the cerebral cortex.

LOBE	FUNCTION
Frontal	
Occipital	
Parietal	
Temporal	

5. Draw a structure of a neuron and label the following parts: *cell body, axon, dendrites, myelin sheath.*

6. Fill in the table.

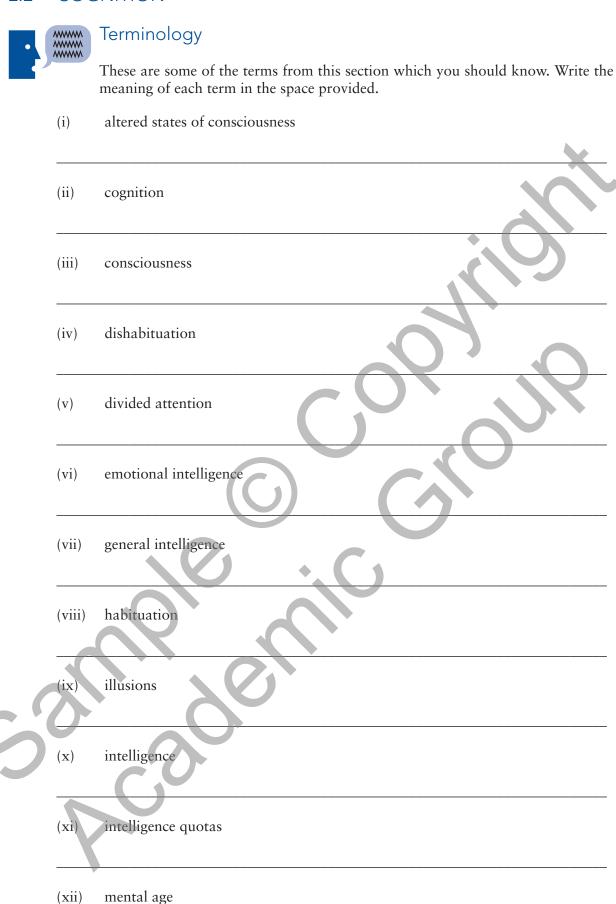
METHODS FOR INVESTIGATION BRAIN FUNCTION

METHOD	NAME	DESCRIPTION
External recording	Electroencephalography (EEG)	3,010
Still Picture	1.	1.
	2.	2.
Dymanic Picture	1.	1.
	2.	2.

7.		lthy brains. Phineas Gage is	n. Animals and humans are used sone famous case study. Explain stigating brain function.
8.	Using empirical evidence, give wellbeing.	e two examples how physic	cal activity can affect our
			, 0
		~ O 7	
	(C		
	- A (7)		
		\cdot	
9.	Fill in the table:		
	DRUG	TYPE OF DRUG	PSYCHOLOGICAL AND PHYSIOLOGICAL RESPONSES

DRUG	TYPE OF DRUG	PSYCHOLOGICAL AND PHYSIOLOGICAL RESPONSES
Cannabis		
Alcohol		
Amphetamine		

2.2 COGNITION



multiple intelligence

(xiii)

	(xiv)	perception
	(xv)	selected attention
	(xvi)	sensation
	(xvii)	visual perception
Revi	ew Qu	uestions
1.	What	is intelligence testing?
2.	Expla	in Weschler's empirical approach to intelligence.
		10 .0
3.	Expla	in how mental age and IQ are measured.

4. In the table below summarise Gardner's multiple intelligence.

TYPE OF INTELLIGENCE	DESCRIPTION	EXAMPLES
Linguistic		
Logical		
Musical		
Kinaesthetic		
Spatial		
Interpersonal		
Intrapersonal		

5. Fill in the following table:

INTELLIGENCE THEORIES

INTELLIGENCE THEORY	THEORIST/S	EXPLANATION OF KEY FINDINGS
General Intelligence		
Multiple Intelligence		
Modern Intelligence testing – Empirical approaches to intelligence		
Intelligence testing – measuring intelligence		
Emotional Intelligence		

6. List the advantages of group and individual testing.

	DESCRIPTION	ADVANTAGES
Group Testing		 2.
Individual Testing		1. 2. 3.

7.	List the senses of the body.
8.	For each of the senses above identify the types of stimuli.
9.	How do illusions change our perception?
10.	List three ways that our perception can be distorted.
0	
11.	How do the following indicate different states of consciousness?
	(i) Electrical activity of the brain

(ii)	Heart rate
(iii)	Body temperature
(iv)	Galvanic skin response
>	
7	