

# INTERNATIONAL A-LEVEL PSYCHOLOGY PS03

Unit 3 Advanced Topics and Research Methods 2

Mark scheme

June 2022

Version: 1.0 Final Mark Scheme



Mark schemes are prepared by the Lead Assessment Writer and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation events which all associates participate in and is the scheme which was used by them in this examination. The standardisation process ensures that the mark scheme covers the students' responses to questions and that every associate understands and applies it in the same correct way. As preparation for standardisation each associate analyses a number of students' scripts. Alternative answers not already covered by the mark scheme are discussed and legislated for. If, after the standardisation process, associates encounter unusual answers which have not been raised they are required to refer these to the Lead Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of students' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

Further copies of this mark scheme are available from oxfordaqaexams.org.uk

#### Copyright information

OxfordAQA retains the copyright on all its publications. However, registered schools/colleges for OxfordAQA are permitted to copy material from this booklet for their own internal use, with the following important exception: OxfordAQA cannot give permission to schools/colleges to photocopy any material that is acknowledged to a third party even for internal use within the centre.

Copyright © 2022 Oxford International AQA Examinations and its licensors. All rights reserved.

## Level of response marking instructions

Level of response mark schemes are broken down into levels, each of which has a descriptor. The descriptor for the level shows the average performance for the level. There are marks in each level.

Before you apply the mark scheme to a student's answer read through the answer and annotate it (as instructed) to show the qualities that are being looked for. You can then apply the mark scheme.

## Step 1 Determine a level

Start at the lowest level of the mark scheme and use it as a ladder to see whether the answer meets the descriptor for that level. The descriptor for the level indicates the different qualities that might be seen in the student's answer for that level. If it meets the lowest level then go to the next one and decide if it meets this level, and so on, until you have a match between the level descriptor and the answer. With practice and familiarity you will find that for better answers you will be able to quickly skip through the lower levels of the mark scheme.

When assigning a level you should look at the overall quality of the answer and not look to pick holes in small and specific parts of the answer where the student has not performed quite as well as the rest. If the answer covers different aspects of different levels of the mark scheme you should use a best fit approach for defining the level and then use the variability of the response to help decide the mark within the level, ie if the response is predominantly level 3 with a small amount of level 4 material it would be placed in level 3 but be awarded a mark near the top of the level because of the level 4 content.

## Step 2 Determine a mark

Once you have assigned a level you need to decide on the mark. The descriptors on how to allocate marks can help with this. The exemplar materials used during standardisation will help. There will be an answer in the standardising materials which will correspond with each level of the mark scheme. This answer will have been awarded a mark by the Lead Examiner. You can compare the student's answer with the example to determine if it is the same standard, better or worse than the example. You can then use this to allocate a mark for the answer based on the Lead Examiner's mark on the example.

You may well need to read back through the answer as you apply the mark scheme to clarify points and assure yourself that the level and the mark are appropriate.

Indicative content in the mark scheme is provided as a guide for examiners. It is not intended to be exhaustive and you must credit other valid points. Students do not have to cover all of the points mentioned in the Indicative content to reach the highest level of the mark scheme.

An answer which contains nothing of relevance to the question must be awarded no marks.

### Section A: Psychology of Sleep

#### Total for this section: 30 marks

Question		Marking guidance		Total marks
01	Briefly	describe two characteristics of REM sleep.		4
	<ul> <li>Loss move</li> <li>Rapid the ey</li> <li>Parace there EEG)</li> <li>Phase appro</li> </ul>	e content of muscle tone – in REM sleep the body muscles lose tone ment is limited. eye movement – REM sleep is characterised by rapid mov yes seen by eyeballs moving quickly under closed eyelids. loxical sleep – REM sleep is sometimes called paradoxical is a contrast between the high arousal in the brain (as mea but a largely unresponsive body. es of REM – during an average 8 hours of sleep there are ximately 5 phases of REM sleep each lasting about 15 min ultradian biological rhythm.	vement of sleep as asured on	AO1 = 4
	<ul> <li>Drear vivid of</li> </ul>	ning – when woken from this type of sleep about 80% of pe dreams. ther relevant description.	eople report	
	<ul> <li>Drear vivid of</li> </ul>	ning – when woken from this type of sleep about 80% of pe dreams.	eople report Marks	
	Drear vivid o Credit o	ning – when woken from this type of sleep about 80% of pe dreams. ther relevant description.		
	Drear vivid of Credit o	ning – when woken from this type of sleep about 80% of pe dreams. ther relevant description. <b>Description</b> The description of <b>two</b> features of REM sleep is accurate with some detail. The answer is clear with	Marks	

Question	n Marking guidance					
02	months having	is found it difficult to fall asleep each night for the last s . She regularly wakes up throughout the night. Sara is difficulty carrying out her work because she is extreme the day.	s now	4 AO1 = AO2 =		
		outline two symptoms of insomnia.  Refer to Sara in yo	ur answer.			
	<ul> <li>A syn fall as</li> <li>Insom appea night.</li> <li>One s</li> </ul>	symptom is daytime tiredness which affects ability to functio	Sara nout the			
	functi	s lack of sleep is beginning to have an adverse effect on he on (she often cannot carry out her job). ther relevant content.	er ability to			
	functi	on (she often cannot carry out her job).	r ability to Marks			
	functi Credit o	on (she often cannot carry out her job). ther relevant content.	-			
	functi Credit o	on (she often cannot carry out her job). ther relevant content. Description The description of <b>two</b> symptoms of insomnia is accurate with some detail. There is appropriate application to Sara. The answer is clear with	Marks			

Question	Marking guidance	Total marks
03	What are exogenous zeitgebers?	2
	<ul> <li>Possible content Exogenous zeitgebers are environmental factors (external stimuli) which control/synchronise/regulate biological rhythms, such as light and temperature. </li> <li>2 marks for a clear outline of the term exogenous zeitgebers. 1 mark for a limited, vague or muddled outline.</li></ul>	AO1 = 2

Question		Marking guidance		Total marks
04	Discuss a	t least one restoration theory of sleep.		20
	<ul> <li>Physiolo</li> <li>Aspects synthes</li> <li>Oswald body.</li> <li>REM sle connect</li> <li>Horne's (REM all occur in</li> </ul>	knowledge ogical states during sleep reflect time of recovery of body of brain metabolism may be restored, eg synaptic conne is of brain chemicals. (1969; 1980) – REM sleep restores brain, NREM sleep re eep may be associated with development of new synaptic ions/brain development. Restoration Theory – core sleep essential for brain resto nd deep NREM); light NREM is optional sleep. Body rest relaxed waking state.	ctions, estores ; ration	AO1 = 8 AO3 = 12
	<ul> <li>Theories</li> <li>Use of e deprivat disorder</li> <li>Contrad vigorous (Shapiro</li> <li>Effects o sleeping</li> <li>REM ref</li> <li>Compar consolio</li> </ul>	discussion s consistent with high levels of REM sleep in newborns. evidence to support restoration theories, eg case studies of ion show mental disturbances including hallucination and rs (Gardner (1964), Tripp (1960s)). lictory findings in relation to the effects of exercise on sleep of et al. (1981)). of fatal familial insomnia – rare inherited condition where g in middle age and usually die within 2 years. bound after deprivation supports crucial role of REM sleep ison/links with other theories, eg evolutionary theory and lation.	l language ep – people stop p.	
	Level	Description	Marks	
	4	Knowledge of <b>at least one</b> restoration theory of sleep is mostly accurate and generally well detailed. Discussion is mostly effective. Minor detail and/or expansion of argument is sometimes lacking. The answer is clear and focused. Specialist terminology is mostly used effectively.	16–20	
	3	Knowledge of <b>at least one</b> restoration theory of sleep is evident but there are occasional inaccuracies/omissions. There is some effective discussion. The answer is mostly clear and organised but occasionally lacks focus. Specialist terminology is mostly used appropriately.	11–15	
	2	Limited knowledge of <b>at least one</b> restoration theory of sleep is present. Any discussion is of limited effectiveness. The answer lacks clarity, accuracy and	6–10	

	organisation in places. Specialist terminology is occasionally used appropriately.		
1	Knowledge of <b>at least one</b> restoration theory of sleep is very limited. Discussion is limited, poorly focused or absent. The answer lacks clarity, has many inaccuracies and is poorly organised. Specialist terminology is either absent or inappropriately used.	1–5	
0	No creditable content.	0	

#### Section B: Schizophrenia

#### Total for this section: 30 marks

Question		Marking guidance		Total marks
05	Briefly of schizop	describe how neural correlates can be used to explain		4
	<ul> <li>Possible</li> <li>The n betwee severie</li> <li>Chang people enlarg sympt</li> <li>One a schized inabili</li> <li>The p sufferivisual</li> <li>The a dama</li> <li>Reduce negative respon</li> <li>Glutaris linker reduce dopari</li> <li>Descrischized</li> </ul>	e description eural correlates explanation for schizophrenia looks at the en structure and/or functioning of various parts of the brain ty of schizophrenic symptoms. ges to the structure of the brain are linked to the behaviours e with schizophrenia. For example, CT scans have shown gement in people with schizophrenia and this is linked to ne oms, eg avolition. The area of the brain that appears damaged on MRI scans of peophrenia is the prefrontal cortex. This area could account f ty of some people suffering from schizophrenia to organise rimary visual area in the occipital lobe can be damaged in ing from schizophrenia and this can lead to incorrect proce stimuli. Uditory illusions associated with schizophrenia can be trace ge in the auditory systems such as Wernicke's. ced dopamine in the frontal area of the brain might be caus ive symptoms whilst increased dopamine in other areas mi nsible for the positive symptoms. mate activity has been found to be reduced in schizophreni ed to the NMDA receptors working less effectively. Glutam e dopamine, therefore if glutamate is reduced this will increa- nine levels and result in schizophrenic symptoms. iption of evidence, eg ventral striatum/negative symptoms ophrenia (Juckel <i>et al.</i> 2006), etc.	and the s seen in ventricular egative eople with or the e thoughts. people ssing of ed to brain sing ght be ics and this ate acts to ease	AO1 = 4
	Level	Description	Marks	
	2	The description of neural correlates as an explanation for schizophrenia is accurate with some detail. The answer is clear with appropriate use of specialist terminology.	3–4	
		The description of neural correlates as an explanation for schizophrenia is limited, vague or muddled.		
	1	Specialist terminology is either absent or inappropriately used.	1–2	

Question		Marking guidance		Total marks
06.1	Explain schizopl	one strength of using anti-psychotic drugs as a therap prenia.	by for	3
	<ul> <li>Use of (2003) <i>et al.</i> (2</li> <li>Anti-ps taken i</li> <li>The typ positive</li> <li>Anti-ps decreat society</li> </ul>	evidence for effectiveness of anti-psychotic drugs, eg Tho , Adams <i>et al.</i> (2005), Cole <i>et al.</i> (1964), Meltzer (1999), M 2006) etc. sychotic drugs are accessible for people as many of them in a variety of forms, eg tablets, depots, etc. bical anti-psychotic drugs are particularly effective in treati e symptoms of schizophrenia such as hallucinations and of sychotic drugs have revolutionised the treatment of schizophrenia sed the number of people who were previously separated because they had been isolated/hospitalised.	AcGlashan can be ng the delusions. phrenia and	AO3 = 3
	Level	Description	Marks	
	3	A strength of using anti-psychotic drugs as a therapy for schizophrenia is both detailed and appropriate. The answer is clear with appropriate use of specialist terminology.	3	
	2	A strength of using anti-psychotic drugs as a therapy for schizophrenia is relevant, but detail is lacking. The answer lacks clarity in places. There is some appropriate use of specialist terminology.	2	
	1	A strength of using anti-psychotic drugs as a therapy for schizophrenia is very limited. The answer is vague/muddled. Specialist terminology is either absent or inappropriately used.	1	

Question		Marking guidance		Total marks
06.2	Explain of schizoph	one limitation of using anti-psychotic drugs as a thera arenia.	apy for	3
	effects Typical Not all Anti-ps only, au for life, Anti-ps current Ethical Issues treatme	trition rates because typical anti-psychotic drugs can caus such as confusion, weight gain, involuntary movement, ef anti-psychotics have no/little effect on negative symptom people respond to anti-psychotic drugs. ychotic drugs are used to reduce the symptoms of schizo nd do not offer a cure. This means that the drugs are usu and people have to cope with the side effects long term. ychotic drugs must be taken regularly even when sympton ly being experienced. issues with the use of drugs to control people. such as reductionism where these are related to anti-psyc ent, eg anti-psychotic drugs operate at the basic level of c	tc. is. phrenia ially taken ms are not chotic drug ells and	
		als and do not consider the person's whole experience ar o only provide a partial treatment.	nd thus are	
	likely to	o only provide a partial treatment. ner relevant limitations.	1	
	likely to	o only provide a partial treatment.	Marks 3	
	likely to Credit oth	<ul> <li>only provide a partial treatment.</li> <li>her relevant limitations.</li> <li>Description</li> <li>A limitation of using anti-psychotic drugs as a therapy for schizophrenia is both detailed and appropriate. The answer is clear with appropriate use of specialist</li> </ul>	Marks	
	likely to Credit oth Level 3	<ul> <li>only provide a partial treatment.</li> <li>her relevant limitations.</li> <li>Description</li> <li>A limitation of using anti-psychotic drugs as a therapy for schizophrenia is both detailed and appropriate. The answer is clear with appropriate use of specialist terminology.</li> <li>A limitation of using anti-psychotic drugs as a therapy for schizophrenia is relevant, but detail is lacking. The answer lacks clarity in places. There is some</li> </ul>	Marks 3	

Question	Marking guidance	Total marks
07	Discuss issues of reliability and validity in the diagnosis of schizophrenia.	20
	<ul> <li>schizophrenia.</li> <li>Possible content <ul> <li>Reliability refers to the consistency of a diagnosis.</li> <li>Reliability can be measured using test-retest (when a clinician makes the same diagnosis on separate occasions from the same information; and inter-rater reliability (when different clinicians make the same diagnosis of the same person)).</li> <li>Diagnosis of schizophrenia can change over time. The diagnostic criteria in the ICD/DSM change as they are updated. This can affect both the reliability and validity of a diagnosis. As each edition of the DSM has been published inter-rater reliability has improved, eg Beck <i>et al.</i> (1962) found a 54% concordance rate between practitioners whereas in 2005 Soderberg <i>et al.</i> found a concordance rate of 81%.</li> <li>Validity refers to the accuracy of diagnosis.</li> <li>Reliability is an essential pre-requisite for validity. So, if a diagnosis of schizophrenia is not reliable then it cannot be valid.</li> <li>Measures of validity include: predictive validity, descriptive validity and aetiological validity.</li> <li>Knowledge of issues such as cultural bias, comorbidity, etc if related to reliability/validity of diagnosis of schizophrenia.</li> </ul> </li> <li>Credit other relevant content.</li> <li>Possible discussion <ul> <li>Use of contradictory evidence for reliability, eg Rosenhan (1973), Read <i>et al</i> (2004).</li> <li>People diagnosed with schizophrenia can differ greatly on symptoms, suggesting the idea of a single label of schizophrenia is not valid.</li> <li>Use of supporting evidence for validity, eg Baillie <i>et al.</i> (2009), Allardyce <i>et al.</i> (2006).</li> <li>Use of contradictory evidence for validity, eg Baillie <i>et al.</i> (2009).</li> <li>Use of contradictory evidence for validity, eg Baillie <i>et al.</i> (2009), Allardyce <i>et al.</i> (2006).</li> <li>Discussion of threats to reliability and validity including issues of: Co-morbidity, Cultural bias, Gender bias, Symptom overlap.</li> </ul> </li> </ul>	AO1 = 8 AO3 = 12

Level	Description	Marks
4	Knowledge of the issues of reliability and validity in the diagnosis of schizophrenia are accurate and generally well detailed. Discussion is thorough and effective. Detail and/or expansion of argument is sometimes lacking. The answer is clear and focused. Specialist terminology is mostly used effectively.	16–20
3	Knowledge of the issues of reliability and validity in the diagnosis of schizophrenia are evident but there are occasional inaccuracies/omissions. Discussion is mostly effective. The answer is mostly clear and organised but occasionally lacks focus. Specialist terminology is mostly used appropriately.	11–15
2	Limited knowledge of the issues of reliability and/or validity in the diagnosis of schizophrenia is present. Focus is mainly on description. Any discussion is of limited effectiveness. The answer lacks clarity, accuracy and organisation in places. Specialist terminology is occasionally used appropriately.	6–10
1	Knowledge of the issues of reliability and/or validity in the diagnosis of schizophrenia is very limited. Discussion is limited, poorly focused or absent. The answer as a whole lacks clarity, has many inaccuracies and is poorly organised. Specialist terminology is either absent or inappropriately used.	1–5
0	No creditable content.	0

#### Section C: Research Methods 2

#### Total for this section: 30 marks

uestion	Marking guidance					
08	Previous research has found that more boys ask questions in lessons than girls. A researcher investigated this further. He carried out a covert					4
	observa	tion of a psy	chology lesson. The	lesson was recorded	on video.	AO2 = AO3 =
	who ask	ed at least o	ysed the recording by one question during th east one question dur	e lesson and the num		
	The resu	ilts of the ob	oservation are shown	in Table 1 below.		
	Table	1 – Number	of girls and boys who during the psycholo		question	
			Asked at least one question	Did not ask at least one question		
		Girls	3	9		
		Boys	7	5		
	data from Content • More b • Many r	<b>n the table t</b> boys ask que more boys (7	archer conclude from o justify your answer. stions in a (psychology) out of 12, over 50%) as	lesson than girls. sked a question during	the	
	data from Content • More b • Many r	<b>n the table t</b> boys ask que more boys (7	o justify your answer. stions in a (psychology)	lesson than girls. sked a question during	the	
	data from Content • More b • Many r lesson OR • Fewer • Only 3	n the table t boys ask que more boys (7 , than girls (3 girls ask que of the 12 gir	o justify your answer. stions in a (psychology) out of 12, over 50%) as	lesson than girls. sked a question during ked a question during ) lesson than boys. on during the lesson w	the the lesson.	
	data from Content • More b • Many r lesson OR • Fewer • Only 3 of the	n the table t boys ask que more boys (7 , than girls (3 girls ask que of the 12 gir	o justify your answer. stions in a (psychology) out of 12, over 50%) as out of 12, just 25%) as estions in a (psychology ls (25%) asked a question r 50%) asked a question	lesson than girls. sked a question during ked a question during ) lesson than boys. on during the lesson w	the the lesson.	
	data from Content • More b • Many r lesson OR • Fewer • Only 3 of the	n the table t boys ask que more boys (7 , than girls (3 girls ask que of the 12 gir 12 boys (ove	o justify your answer. stions in a (psychology) out of 12, over 50%) as out of 12, just 25%) as estions in a (psychology ls (25%) asked a question r 50%) asked a question content.	lesson than girls. sked a question during ked a question during ) lesson than boys. on during the lesson w	the the lesson.	
	data from Content • More b • Many r lesson OR • Fewer • Only 3 of the Credit oth	n the table t boys ask que more boys (7 , than girls (3 girls ask que of the 12 gir 12 boys (ove her relevant o Descriptior The conclus	o justify your answer. stions in a (psychology) out of 12, over 50%) as out of 12, just 25%) as estions in a (psychology ls (25%) asked a question r 50%) asked a question content.	lesson than girls. sked a question during ked a question during ) lesson than boys. on during the lesson w n during the lesson.	the the lesson. /hereas 7	
	data from Content • More b • Many r lesson OR • Fewer • Only 3 of the Credit oth	n the table t boys ask que more boys (7 , than girls (3 girls ask que of the 12 gir 12 boys (ove her relevant of Description The conclus appropriate terminology The conclus The justifica	o justify your answer. stions in a (psychology) out of 12, over 50%) as sout of 12, just 25%) as estions in a (psychology ls (25%) asked a question to 50%) asked a question content. n sion drawn is clear and of justification. There is a sion drawn is limited, va tion is vague/missing. of terminology is either	lesson than girls. sked a question during ked a question during ) lesson than boys. on during the lesson w n during the lesson. detailed with ppropriate use of gue or muddled. The answer lacks	the the lesson. /hereas 7 <b>Marks</b>	

Question	Marking guidance	Total marks
09	Should the hypothesis for this study be directional or non-directional? Explain your answer.	2
	<b>1 mark</b> for directional.	AO2 = 2
	<b>1 mark</b> for an explanation: Previous research allows the researcher to predict which group (out of boys and girls) will ask more questions.	

Question	Marking guidance	Total marks
10	What types of data were collected in this study?	2
	Shade two boxes.	AO2 = 2
	A Meta-analysis data	
	B Primary data	
	C Qualitative data	
	D Quantitative data	
	E Secondary data	
	Answer = B (Primary data) and D (Quantitative data)	

Question	Marking guidance	Total marks
11	With reference to this study, explain what is meant by covert observation.	2
		AO2 = 2
	<b>2 marks</b> for a clear explanation of covert observation related to the study.	
	<b>1 mark</b> for a muddled or vague explanation.	
	<ul> <li>Possible content</li> <li>The girls and boys in the psychology lesson would be unaware that research was being carried out in the classroom and that their 'asking a question' behaviour was being observed and recorded.</li> <li>Observations of the girls and boys were video recorded without their knowledge, etc.</li> </ul>	
	Credit other relevant content.	

Question	Marking guidance	Total marks
12	Briefly explain why this study is a non-participant observation.	1
	<b>1 mark</b> for a brief explanation that is applied to the study, eg:	AO2 = 1
	This study is a non-participant observation as the researcher is not involved in the lesson.	

Question		Marking guidance				
13	Explain lesson.	why it was important to observe the girls and boys in	the same	4		
	<ul> <li>Obser import</li> <li>If the possit boys a</li> <li>Becau more</li> </ul>	e content rving the girls and boys at the same time in the same lesso tant in order to control possible extraneous variables. girls and boys had been in different lessons, at a different to oly with a different teacher, then any differences found betw and girls could be due to these extraneous variables. use these variables were controlled, any differences found confidently attributed to differences between girls and boys ther relevant content.	ime of day, veen the can be	AO2 = 4		
	Level	Description	Marks			
	2	The explanation is clear and detailed with appropriate reference to control. There is appropriate use of specialist terminology.	3–4			
	1	The explanation is limited, vague or muddled. The answer lacks clarity. Use of specialist terminology is either absent or inappropriate.	1–2			
	0	No creditable content.	0			

Question	Marking guidance	Total marks
14.1	Name two ethical issues that the researcher should have considered in this study.	2
	1 mark each for any two from:	AO2 = 2
	Confidentiality; consent; deception; debrief; right to withdraw; protection from harm; privacy.	
	(Accept other appropriate ethical issues, eg respect etc).	

Question	Marking guidance				
14.2	Explain how the researcher could deal with the two ethical issues that you have named in your answer to Question 14.1.	4			
		AO2 = 4			
	For <b>each</b> ethical issue, award:				
	<b>2 marks</b> for a clear explanation of how the researcher could have dealt with the issue related to the study.				
	<b>1 mark</b> for a muddled or vague explanation.				
	<ul> <li>Possible content The answer will depend on the issue identified, for example: <ul> <li>protection of participants – At the end of the observation (as part of the debrief) all the boys and girls would be informed of the study and asked if they felt any harm/anxiety. The boys and girls would then be offered counselling (or similar) to deal with any anxiety experienced </li> <li>confidentiality – The researcher would assure all the boys and girls who had been in the lesson that he observed that details of who they were, like their names, or lesson subject (psychology) would not be shared or stored and no one would be able to identify them from the research when it was published </li> <li>right to withdraw – At the end of the study, as part of the debrief, the boys and girls would be given the right to withdraw any data/recordings, etc if they did not wish to be involved and did not want to have their data published.</li> </ul></li></ul>				

Question	Marking guidance					
15.1	The researcher carried out a Chi-squared statistical test on the data in Table 1.					
	Explain	why a Chi-squared test is appropriate for the data in thi	s study.	AO2 =		
	<ul> <li>Possible content</li> <li>Independent design (2 groups – girls and boys).</li> <li>Nominal/categorical data (number of girls and boys who ask/do not ask a question in class).</li> <li>Looking for an association between categories of data (girls and boys; questioning behaviour).</li> <li>Looking for a difference (between girls and boys).</li> </ul>					
	question • Lookin	oning behaviour).	Uys,			
	question • Lookin	oning behaviour). Ing for a difference (between girls and boys).	Marks			
	questio	oning behaviour). Ig for a difference (between girls and boys). her appropriate content.	-			
	questic • Lookin Credit ot	<ul> <li>boning behaviour).</li> <li>Ing for a difference (between girls and boys).</li> <li>Inher appropriate content.</li> <li>Description</li> <li>The explanation and application is accurate and clear.</li> </ul>	Marks			
	questic • Lookin Credit ot Level 3	<ul> <li>Description</li> <li>The explanation and application is accurate and clear. There is appropriate use of specialist terminology.</li> </ul>	Marks 3			

Question			Ма	rking guidar	ıce			Total marks
15.2	The researcher found the calculated value of Chi-squared ( $\chi^2$ ) was 2.74.						4	
	Table 2 – Critical Values Table for the Chi-squared Statistical Test						AO2 = 4	
			0.10	0.05	0.01	0.005		
		df = 1	1.64	2.71	5.02	6.64		
	(The	calculated	I value of $\chi$	<sup>2</sup> must be e	equal to or g	greater thai	n the	
			critical va	alue to be sig	gnificant)			
	•			or the Chi-s decide whe	-	•	,	
	Justify y	our decisi	on.					
	<b>1 mark</b> for stating that this is a significant result.							
	<b>3 marks</b> for the justification.							
	As the		value of $\chi^2$	at P = 0.05 at 2.74 is m		critical/table	e value,	
	Credit reference to rejecting the null hypothesis/accepting the alternative hypothesis and/or the probability level of 5% means P = 0.05							
	Level	Descripti	on				Marks	
	3			urate and cle ulated values		opriate	3	
	2	-		ately refers to t lacks some		riate	2	
	1	For a muc appropria		ition that cont	tains some		1	
	0		able content.				0	

Question	Marking guidance	Total marks			
16	After the observation, the researcher interviewed all of the girls who had been in the psychology lesson that was videoed. He was interested in why many of the girls did not ask questions in the lesson.				
	Write one closed question and one open question that the researcher could use in the interview.				
	<b>1 mark</b> for a closed question which must have the fixed options clearly given, eg:				
	Please answer yes or no. "Did you ask a question in the psychology class today?" Yes/No "Do you enjoy psychology lessons?" Never/Sometimes/Always				
	<b>1 mark</b> for an open question, eg:				
	"Tell me why you did not (did) ask a question in the psychology class today." "Explain how you feel when you want to ask a question in the psychology lesson."				