

Cambridge Assessment International Education Cambridge International Advanced Subsidiary and Advanced Level

THINKING SKILLS

9694/23 October/November 2017

Paper 2 Critical Thinking MARK SCHEME Maximum Mark: 45

Published

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[Turn over

Question	Answer	Marks
1(a)	This contradicts Professor Eno's claim about his son's experience [1] , which means that Professor Eno has exaggerated (<i>accept</i> lied about) his son's suitability for the job [1] . Together with the daughter's admitted lack of experience [1] , this reduces Professor Eno's credibility [1] and suggests that his actions have been motivated by vested interest to benefit his own children [1] , which adds plausibility to the subsequent allegation that he has defrauded the University in order to pay excessive fees to his children [1] .	3
1(b)(i)	 2 marks for a developed answer; 1 mark for undeveloped answer. If Mr Devi has been making these allegations, they may be evidence of his animosity towards Professor Eno. If Mr Devi has been making these allegations, they show that he suspects Professor Eno, which raises the possibility that he may be guilty. If Mr Devi has been making these allegations, they give him a motive for obtaining the accounts, as alleged in Source E. The allegations may be true, which provides a possible motive for Professor Eno to protect himself by denying Mr Devi access to the accounts. The allegations may be true, which provides a possible motive for Professor Eno to protect himself by accusing Mr Devi of theft, in order to reduce his credibility. 	2
1(b)(ii)	 2 marks for a developed answer; 1 mark for undeveloped answer. The lawyers do not know whether Mr Devi did make these allegations, nor – if he did – whether they are true or not. The lawyers do whatever their client asks them to, and he may have a vested interest to misinform them. The lawyers have a vested interest to misinterpret the truth in order to protect their client. 	2
1(c)	 2 marks for a clear, valid answer; 1 mark for a vague, incomplete or marginal answer. He may wish to harm Allan Devi out of revenge because Mr Devi secured the appointment he expected to get. He may hope that Mr Devi will resign or be dismissed and he will be appointed in his place. He may hope that if Mr Devi resigns or is dismissed, there will be no investigation of past financial irregularities / Mr Devi's allegations against him will have less credibility. He may hope to avoid being encouraged to take early retirement. 	2

Question		Answer	Marks
1(d)	Level 3 5–6 marks	A strong answer, which provides a reasoned argument including thorough evaluation of the evidence to support an acceptable conclusion in terms of probability and evaluates the plausibility of at least one alternative conclusion.	6
	Level 2 3–4 marks	A reasonable answer, which evaluates the evidence, draws an acceptable conclusion in terms of probability and may mention the plausibility of at least one alternative conclusion.	
	Level 1 1–2 marks	A weak answer, which refers to the evidence, possibly including a simple evaluative comment. The conclusion may be unstated or over-stated.	
	Level 0 0 marks	No credit-worthy material.	
	Indicative cont	ent	
		ally three ways of understanding this case, and candidates take any of these approaches:	
	control of Profes	the Heritage Tour was due to circumstances outside the ssor Eno or his children. He is innocent of any wrong-doing, but e made a scapegoat.	
	he is now trying	been enriching his family at the expense of the university, and to prevent Mr Devi from exposing his wrong-doing; on this he is guilty of defrauding the university.	
		ay be innocent of the allegations made against them, but they ed by suspicion of one another.	
	other words, the	st likely explanation lies somewhere between (i) and (ii). In e profitability of the Heritage Tour fell short of expectations, holly, to generous (but not "excessive") fees paid to Professor	
	Notes for the g	uidance of markers	
	Simple supported conclusion 1 (if no conclusion cap at Level 2)		
	-	eration of alternative +1 rejection of alternative +1	
		some (3 or fewer) sources of evidence +1 of all or most (4 or more) sources of evidence +2	
		tion of evidence +1 or (more than one case) +2 al reasoning +1 or (more than one case) +2	
	Max 6		

Question	Answer	Marks
2(a)	It is not just the amount of food which influences growth [1] , but the quality/type/nutritional value is relevant [1] . Source B describes the food eaten by Americans in recent decades as "junk food" [1] . There could be an optimal amount of food for growth [1] , and Americans are now exceeding it [1] . The nature of work has changed significantly between Sources A and B [1] . Sedentary work does not require the same amount of food and physical labour [1] . The comparisons of Americans' heights with other nationalities are different [1] : Source A compares them to Europeans, but Source B only mentions 'other nationalities' [1] .	4
2(b)	Not effective [1] . Genetics being the main factor is compatible with diet and/or health-care having some influence [1] . The objection refers to the height of individuals within a population [1] , whereas the claims in Sources A, B and C refer to averages over time/between generations [1] . The influence of genetics on height is not as simple as the student imagines [1] . <i>Credit should be given to the following explanation, if anyone suggests it:</i> It is possible to connect changes in the average height of a population to the stability of genetic traits [1] by reference to the principle of natural selection (theory of evolution) [1] , if taller people are more likely to pass on their genes than shorter people [1] . However, this is unlikely to be noticeable over such a short time frame as envisaged in these sources [1] .	3
2(c)	 <i>1 mark for each of the following:</i> Recruits may tend to be shorter than the average, if more people from poor/deprived backgrounds join the army than people who have enjoyed better health care and better nutrition during childhood and adolescence or if recruits have not yet reached their full height [1]. Recruits may tend to be taller than average if the army restricts recruitment to people who pass certain standards of fitness and physical development. 	2

Question		Answer	Marks
2(d)	Level 3 5–6 marks	A reasoned argument, which uses and evaluates all or most of the evidence provided.	6
	Level 2 3–4 marks	A simple argument, which uses and/or evaluates evidence.	
	Level 1 1–2 marks	A weak answer, which makes some correct reference to evidence but consists of opinion and/or assertion rather than argument or a weak argument which makes no reference to evidence.	
	Level 0 0 marks	No credit-worthy material.	
	Indicative co	ntent	
	Sour heigh	ce A shows that there is a correlation between prosperity and nt;	
	this c	a reasonable hypothesis that diet is at least part of the reason for correlation.	
	Sour If true	ce B gives an alternative interpretation of the facts stated in ce A. e, that would suggest that eating "better" is not only a matter of one can "afford"/not just eating more.	
	well I Japa	ce C records that "experts" think that improvements in diet may be all or part of the reason for the increase in height among nese children,	
	which Sour	hey admittedly "have not agreed", h suggests that some may identify other causes. ce D supports the approximate correlation between "living derde" and beight	
		dards" and height, ugh the statistics may have been influenced by recruitment ies.	
	P	le to guess that improved diet is at least one factor causing the	
	Notes for the	e guidance of markers	
	Simple suppo OR nuanced o	rted conclusion 1 conclusion 2	
		2 sources +1 or most (3 or more) sources of evidence +2 oning or summarising or comprehension	
	+ critical evalu	uation of evidence +1 or (more than one case) +2	
	+ good inferer not speculation	ntial reasoning +1 or (more than one case) +2 on	
	+ personal thi	nking +1	
	Max 6		

Question	Answer	Marks
3(a)	2 marks: All dogs should be kept on a lead and wear a muzzle when out in public. 1 mark: Paraphrase of the above, or quotation with significant omission or addition.	2
3(b)	 1 mark for each of the following, to a maximum of 3 marks: Allowing dogs to roam free in public places is dangerous. Dog owners should take precautions to avoid these problems. Keeping dogs on a lead is necessary, for the sake of child welfare. Allowing dogs to roam freely constitutes a risk to public health Everyone will be safer if all dogs are muzzled whenever they are out in public. Allow one additional element or one significant omission in each case. If more than three answers are offered, mark the first four only. 	3

Question	Answer	Marks	
3(c)	Marks for each evaluative point as follows, up to a maximum of 5 marks:		
	 2 marks: Valid evaluative point, clearly expressed. 1 mark: Weak attempt at a valid evaluative point. 		
	Paragraph 1		
	The author conflates dogs and wolves/assumes that the origin of a species is a guide to its current nature. The appeal to traditional stories as a source of authority is not persuasive.		
	Paragraph 2		
	The last sentence is a slippery slope/unrealistic appeal to fear/conflates a frightened or hungry dog being a danger to the public with the "fear of encountering a marauding pack of wild dogs."		
	Paragraph 3		
	This paragraph relies on the assumption that protection from being frightened is an aspect of child welfare. The last sentence of this paragraph is a straw man.		
	Paragraph 4		
	The adjectives applied to children in the second sentence are an appeal to pity. <i>1 mark only</i> . Because the risk of toxoplasmosis is described as "rare", its support for the IC is weak. The final two sentences do not support the IC, because the author admits that the fleas which may be caught by dogs are not the ones which may be a risk to humans. Assumption: that dogs which are kept on a lead or wear a muzzle will not catch fleas.		
	Paragraph 5		
	The first and second sentences conflate being "attacked" with being "permanently injured or even killed"/rely on the assumption that everyone who is attacked by a dog is "permanently injured or even killed".		

Question		Answer	Marks
3(d)	Level 3 4–5 marks	Developed, coherent argument. Reasons strongly support conclusion. Development may include intermediate conclusion or apt examples. Simply structured argument – 4 marks. Effective use of IC etc. – 5 marks.	5
	Level 2 2–3 marks	A simple argument. One reason + conclusion – 2 marks. Two or more separate reasons + conclusion – 3 marks.	
	Level 1 1 mark	Some relevant comment.	
	Level 0 0 marks	No relevant comment.	
	 Maximum 3 marks for wrong conclusion or if conclusion is implied but not stated. No credit for material merely reproduced from the passage. Specimen level 3 answers Support (106 words) It is discriminatory to treat one species as if it were morally superior to another. We would object strongly if a dog, cat or rabbit were to keep a human as a pet. So it is equally wrong for humans to keep a member of any other species captive. It is contrary to the nature of animals to be dependent on humans for food and shelter. They have a right to hunt for their own food, choose their own 		
	is in accordan	and to procreate with a partner of their choice, because doing so ice with their natures. mals should not be kept as pets.	
	Challenge (79) words)	
	need. By mee feeling aband function. The pets them need to find fo they are kept	people live alone, and yet companionship is a natural human eting that need, a dog or a cat rescues the elderly person from oned in their declining years. So pets fulfil an important social neelves also benefit from the relationship, because they don't ood and shelter for themselves, as they would in nature. Instead, safe, warm and well-fed. mals should be kept as pets.	