## Coordination and Response

## **Question Paper 7**

Level	IGCSE
Subject	Biology
Exam Board	CIE
Topic	Coordination and Response
Paper Type	(Extended) Theory Paper
Booklet	Question Paper 7

Time Allowed: 29 minutes

Score: /24

Percentage: /100

Fig. 3.1 shows a female lion in a game reserve.



Fig. 3.1

(a) (i) State one feature, visible in Fig. 3.1, which identifies the lion as a mammal.
[1]
(ii) State one other feature, not visible in Fig. 3.1, which distinguishes mammals from all other vertebrate groups.
[1]

(b)	Stu	dy the eyes of the lion in Fig. 3.1.	
	(i)	Suggest and explain what the light conditions were when the photograph wataken.	/as
		light conditions	
		explanation	••••
			[2]
	(ii)	Explain the importance of the eyes reacting to light in this way.	
			[2]
(c)	Scie	entists say that lions are unable to see in colour.	
	Sug	gest how a study of a lion's retina would provide evidence for this statement.	
			 [1]
(d)		e lion in Fig. 3.1 was observing tourists nearby. It turned its head to see zebiving in the distance.	ras
	Des	scribe how the eyes of the lion would adjust to focus on the zebras.	
			••••
			[3]
(e)	The	lion was photographed in a game reserve in Namibia.	
	Exp	lain why the conservation of animals in game reserves is important.	
			••••
			[3]

) (i)	Suggest one explanation for a rise in the concentration of glucose in the blood.
, (,	[1]
(ii)	Name the organ that secretes insulin.
	[1]
(iii)	Describe the role of the liver in bringing the concentration of glucose in the blood back to normal.
	[2]
(iv)	State the term that describes how a substance, such as glucose, in the body is maintained at a constant level.
	[1]
	[1]
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