Grade Nine Guides







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 Exam questions per topic

Aiming at grade 8/9



Торіс	Question [marks]	Answer
B5: Homeostasis	 Compare the structure and mode of action of the two control systems [4] Homeostasis maintains optimal conditions 	•
	explain what this statement means [4]	
The human nervous system	 Joanna eats a toxic sweet and feels tingling in her mouth and her slavery glands release saliva. describe the pathway of a reflex action. [4] 	•
	≻ for a reflex question	
	 Describe how the structures shown in Figure 2 help to coordinate a reflex action. [6 marks] 	
	Figure 2 Spinal cord Neurone A Neurone C Neurone B	
	 When ice cold water is drunk why does the temperature near the brain decrease [2] 	
	 Required practical: reaction times [6] 	
	 Give 1 reason why the student shouldn't move 	
The Brain	 Name and describe the functions of the brain [3] 	•
	 Describe how scientists study the brain [6] 	
	 A functional MRI (fMRI) scanner allows a person to move while the scanner makes images of the person's brain activity. Suggest how the fMRI scanner could help 	

			to find out more about the brain damage a person has.	
		A	Describe how the brain receives information about light entering the eye [3	
The Eye	[2]	٨	Describe how light entering the eye forms images in the brain	•
	[6]	A	Explain myopia and hyperopia	
	[5]	٨	Explain how the eye changes depending on light levels	
	[6]	A	explain how a Person's eye could adjust to form a clearer image of an Clearera object	
	[3]	A	Describe how spectacle lenses can correct hyperopia	
Control of body temperature	[2]	A	Describe why the skin goes red when warm	•
endocrine system + control of blood glucose concentration	[4]	A	Explain how blood glucose levels change after having a high glucose meal	•
Maintaining the water nitrogen balance &	[4]	٨	Describe how the blood is controlled by ADH	•
Kidneys & ADH + Kidney failure	[4]	A	Explain how excess amino acids are excreted safely	
Hormones in human reproduction	[2]	A	How does changes in the uterus lining adapted for fertilisation	•
	[5]	A	describe how hormones control the menstrual cycle	
Contraceptio n	[5]	A	evaluate the condom and contraceptive implant	•

Plant hormones	 how does auxin make a plant grow towards the light [6] 	•
	 → Germination required practical [6] 	
	 Explain what happened to the growth of the seedling on side Q compared with the growth on side P. [3] 	

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