For Supervisor's use only

90166





Level 1 Biology, 2004

90166 Describe the functioning of human digestive and skeletomuscular systems

Credits: Four 9.30 am Thursday 25 November 2004

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should answer ALL the questions in this booklet.

If you need more space for any answer, use the pages provided at the back of this booklet and clearly number the question.

Check that this booklet has pages 2–11 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

Achievement Criteria	For Assessor's use only	
Achievement	Achievement with Merit	Achievement with Excellence
Describe biological ideas relating to the functioning of human digestive and skeletomuscular systems.	Describe biological ideas relating to the functioning of human digestive and skeletomuscular systems.	Describe biological ideas relating to the functioning of human digestive and skeletomuscular systems.
	Explain biological ideas relating to the functioning of the human digestive or the skeletomuscular systems.	Discuss biological ideas relating to the functioning of the human digestive or the skeletomuscular systems.
Overall Level of F	Performance (all criteria within	a column are met)

You are advised to spend 50 minutes answering the questions in this booklet.

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QUESTION ONE: MUSCLING IN

(a)

The single-celled ancestors of animals had their weight supported by water and were able to move by cilia or other simple organelles. The evolution of large and more complex organisms (animals) led to the development of more complex body systems including the skeletomuscular system.

Describe TWO functions of muscles in the human body.

Explain wh each.	at is meant by voluntary and	involuntary muscles	. Give at least	ONE exam
	n below shows the movemen in components of the arm wo			
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		ns, this resource can here. See below.]	not be	

QUESTION TWO: PASS THE BONE

Giving at least ONE exampl body.	e, describe how the skeleton	protects important organs of the
Describe ONE of the followi	ng bone injuries: Circle the inj	ury you have chosen.
Greenstick fracture;	Simple fracture;	Open/Compound fractur
A joint is a place where two	bones meet.	
Explain why the body need	s more than one type of joint.	

QUESTION THREE: TIME TO DIGEST

(b)

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(a) Complete any TWO rows of the following table:

Body part		Description of the function in the digest	ive system
Teeth			
Sphincter			
Villi			
		is breakfast in bed. Explain why he doesn't nee to reach his stomach. You can use a diagram to	
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	[Fo	r copyright reasons, this resource cannot be reproduced here. See below.]	
		http://www.esa.int/export/esaHS/index.html	

reference to a na i	ment, A nearth med malfunction	y diet and life n of the digesti	e style can hel ve system.	p to avoid dis	sease,' with
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QUESTION FOUR: FOOD FOR THOUGHT

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(a) Complete the following table to **describe** the role in digestion of the named digestive juices:

Digestive juice	Produced by	Role in digestion
Saliva	Salivary glands	
Gastric juice	Stomach	
Bile	Liver	

All of the digestive juices contain enzymes. Explain why more than one type of enzyme is needed in the human digestive system.

scuss how this change in pH level affects the digestive properties of pancre	atic juice.

ESTION FIVE: EGESTION	Assessor's use only
Describe the function of the colon.	
Explain why the colon does not need villi.	
	Describe the function of the colon.

Extra paper for continuation of answers if required. Clearly number the question.

Question number	