

Examiners' Report Lead Examiner Feedback

January 2021

Pearson BTEC Nationals In Animal Management (31645H) Unit 2: Animal Biology



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Introduction

January 2021 was the seventh series of the new specification for Animal Management, when this mandatory unit has been assessed via an external assessment rather than via centre based internal assessment.

The question paper followed the format identified in the additional sample assessment materials published on the Pearson website.

The paper had seven questions. Each question was based on an area of the specification. Learners were required to demonstrate knowledge and understanding of a range of specification topics and to apply this knowledge to the specific question scenarios. The intention was to offer as broad coverage as possible for all areas of the unit content. Questions had varying weightings attached to them, with 1 to 3 marks for the lower demand questions and 4 to 8 marks for questions where an extended response was required.

The extended response, eight mark, questions were marked using a 'levels based' approach to assessment. The overall quality of the response was considered rather than the specific number of points gained.

There was also a focus on the use of suitable technical and vocational language and terminology within each response. The remainder of the questions on the paper were assessed using a range of indicative content and on the quality and clarity of the explanation provided.



Individual Questions

The following section considers each question on the paper, providing examples of popular learner responses and a brief commentary of why the responses gained the marks they did. This section should be considered with the live external assessment and corresponding mark scheme.

Question 1a

A good response demonstrated that the learner was able to recall the names of the missing groups of nutrients as per section A2.1 in the unit content.

(2)

1 There are seven types of nutrient that are important in an animal's diet.

(a) Complete the table below with the two missing groups of nutrients.

water	and a state of the first state of the state of
ibre	
Carbohydrates	
ipids	
Proteins	
/itamins	

2 marks

The two correct groups of nutrients have been included in the table - 2 marks awarded.



A poor response:

- 1 There are seven types of nutrient that are important in an animal's diet.
 - (a) Complete the table below with the two missing groups of nutrients.

(2)

Sugar	
Fibre	
Carbohydrates	
Lipids	
Proteins	
Vitamins	
Calcium	

0 marks

Two incorrect answers have been included- no rewardable marks.



Question 1b

A good response demonstrated that the learner was able to recall the name of the organ that makes bile from section A2.4 in the unit content.

(b) State the organ that makes bile.

(1)

1 mark

Liver

Liver correctly stated- 1 mark awarded.

A poor response: (b) State the organ that makes bile.

(1)

0 mark

Kidney

'Kidney' is an incorrect answer and there were many similar incorrect responses seen- no rewardable mark.

.



Question 1c

This was a four mark question from section A2.3 of the unit content i.e. digestion in ruminants, with the learner required to demonstrate understanding of the processes involved.

A good response demonstrated knowledge of the ruminant's digestive system to gain four marks:

(c) Complete the table below to show the names and functions of the compartments of a ruminant's stomach.

(4)

Name of stomach compartment	Function
RUMEN	Process of fermentation involving bacteria and microorganisms
RETICULUM	Forms undigested food into balls of cud for regurgitation
Omasum	REABORIS WASER AND SALTS
Abomasum	EXCRETTS DESETSUE ENZYTO FOR FURTHIN BREAK DOWN

4 marks

The correct names and functions identified – 4 marks awarded.

A poor response:

(c) Complete the table below to show the names and functions of the compartments of a ruminant's stomach.

(4)

Name of stomach compartment	Function			
molel	Process of fermentation involving bacteria and microorganisms			
grezind	Forms undigested food into balls of cud for regurgitation			
Omasum	Second Stomach			
Abomasum	third stench			



0 marks

All answers are incorrect with no understanding of ruminant digestion demonstrated- no rewardable marks.

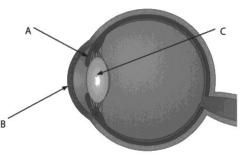


Question 2a

This was a memory recall question from section A3.4 of the unit content regarding the general structure of the eye.

A good response demonstrated that the learner was able to recall the names of the structures in the diagram for three marks.

2 The diagram shows the cross section of an eye.



Source: © metamorworks/Shutterstock

(3)

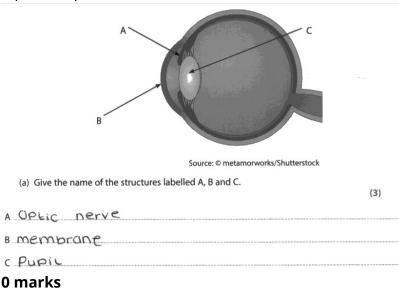
(a) Give the name of the structures labelled A, B and C.

A Kis	
B Carnea	
clens	

3 marks

The correct names of the structures given – 3 marks awarded.

A poor response:



Incorrect names given – no marks awarded.



Question 2b

This was a four mark question from section A3.4 of the unit content requiring the learner to demonstrate an understanding of sense organs. A good response identified the role of each sense organ and explained how it detected stimuli for four marks.

(b) Explain the role of the following sense organs in detecting stimuli.

(4)

Ears

Ears detect Sound through impulse neurones, this is good For hunting because it means that the animal can detect prey from a far distance. The sound also heres them detect where the prey is. Whiskers are Sensibivity enable's animals to B be guided better in the dark meening they can burt during the day and night. They also detect uibrations, which helps them find stimuli

4 marks

The correct role has been identified for each with accurate explanations provided – 4 marks awarded.

A poor response:

(b) Explain the role of the following sense organs in detecting stimuli.

(4)

Ears

for detering sound viboriums through the carelium.

Whiskers

deteas deves in the environment (air) because the within

are very sensitive

2 marks

Only the role of each sense organ identified with no explanation relating to detecting stimuli – 2 marks awarded.

(2)



Question 2c

This was a two mark question on eye positioning in ducks from section A3.7 of the unit content.

A good response identified the eye positioning and explained the advantage for two marks.

(c) Explain one advantage of eye positioning in ducks.

alok's have eyes placed signify to sides of their head. This is to be	the
sides of their head. This is to be	cubie ho
sense any predators or threats a	oming
towards the durck. (for ordeenon)	

2 marks

The eye position has been stated and the advantage explained– 2 marks awarded.

A poor response:

(c) Explain one advantage of eye positioning in ducks.

(2)

It gives them a wider feeld of view

1 mark

One advantage has been explained with no identification of where the eyes are positioned – 1 mark awarded.



Question 2d

A good response required the learner to state the two components of the central nervous system for 2 marks as per section A3.1 from the unit content.

(d) State the two components of the central nervous system.

(2)

(2)

1	Brain
2	spinal cord.

2 marks

The two components of the central nervous system were correctly stated for 2 marks.

A poor response:

(d) State the two components of the central nervous system.

1 <u>8erbory</u>	
2 nerve	

0 marks

This response does not answer the question and demonstrates no understanding - no rewardable marks available.

(2)

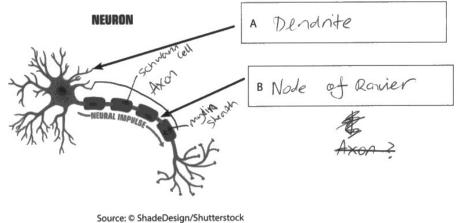
(2)



Question 3a

This was a two mark memory recall question from section B4.5i of the unit content and a good response correctly labelled the two structures of a neuron for two marks.

3 The diagram shows a neuron (nerve cell).



Source. • Shadebesign Shaterstock

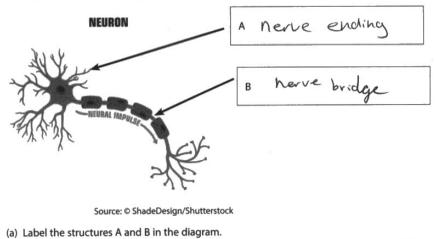
(a) Label the structures A and B in the diagram.

2 marks

The two correct structures of a neuron have been labelled for two marks.

A poor response:

3 The diagram shows a neuron (nerve cell).



0 marks

Incorrect answers have been included on the diagram- no marks awarded.



Question 3b

A good response required the learner to demonstrate understanding of the role of a neurotransmitter from section B4.5iv of the unit content with a description identifying four marks from the mark scheme.

(b) Describe the role of a neurotransmitter. (4) Neurotransmitters, such as acetylcholine, are released and cause depolarisation. This trigger an action potential. This causes a response. Acetylcholine causes a gap to form and Car binds to the gap. The Acetylcholine tragers a response for 'normality' No radrendline triggers an 'emergency' response

4 marks

This response demonstrates an understanding of the role of a neurotransmitter, identifying acetylcholine (1), depolarisation (1), action potential (1), gap (1) to be awarded 4 marks.

A poor response:

(b) Describe the role of a <u>neurotransmitter</u>. (4) A Neurotrangmitter is a type of Neuron that transmitts transmits fignals to and from the brain whenever touch is used. It can also be used to neagure pain. For example, if someone Ctubs their toe, the neurotrogenitter will send the Gignal of pain to the brain.

0 marks

This response is incorrect describing reaction to pain - no rewardable marks available.



Question 3c

A good response required the learner to describe two types of neurons as per section B4.5iii in the unit content for four marks.

(c) Describe two types of neuron. (4))
1 Sensory neuron to is are found in our Ainger tips and	
help us deket stimuli. For example, if you touch a not pan it	
sends a message to the brain telling us it is not.	
2 Motor neuron & sends signals to the brain to tell us to move	•
away from danger. For example, if you touch a not pan your	
hand will imediantly let go of it.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

4 marks

Two types of neuron have been described using an example to be awarded four marks.

A poor response:

(c) Describe two types of neuron.	
	(4)
1 Motor remon	
2 sensory nouron	

2 marks

Two types of neuron have been identified for two marks but no description of each neurons has been included.



Question 3d

A two mark question on degenerative myelopathy in dogs from section A3.9 of the unit content which required the learner to describe the condition to achieve two marks.

(d) Describe degenerative myelopathy (DM) in dogs.

Degenerative myelopathy is when the neurons in the dogs body Stop firing messages properly from nerve to nerve usually leading to the dogs back leys to working Correctly leading use their be

2 marks

A correct description as per marking points in the mark scheme to be awarded 2 marks.

A poor response:

(d) Describe degenerative myelopathy (DM) in dogs. This is a deformity in the dogs speen, and can cause the dog to have health problems and can cause the dog to not grow property have a delay in their growth rate.

0 marks

An incorrect description of the condition – no rewardable marks available.

(1)



Question 4a

This was a one mark memory recall question on the location of pseudostratified columnar epithelium from section B4.3 in the unit content. A good response would have identified one of several locations listed in the mark scheme.

- 4 Cells are the basic units of living organisms, working together to perform specific functions.
 - (a) State one location of pseudostratified columnar epithelium.



1 mark

A correct location has been stated for one mark.

A poor response:

Brain

- 4 Cells are the basic units of living organisms, working together to perform specific functions.
 - (a) State one location of pseudostratified columnar epithelium.

(1)

0 mark 'Brain' is an incorrect answer and there were many incorrect responses seen- no rewardable mark.



Question 4b

A good response required the learner to demonstrate their understanding of what skeletal muscle looked like by identifying descriptive points as per the mark scheme for three marks. The question is from section B4.6i in the unit content.

(b) Describe the appea	/ arance of s	keletal muscle.				(3)
It is	lahn	tubular	and	striated,	With	
a few	nuclei	per ce				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

3 Marks

A succinct response with three descriptive points as per the mark scheme – 3 marks awarded.

A poor response:

(b) Describe the appearance of skeletal muscle.

		(3)
	A skelckn is made primarily of	
	limps. The pp/ fort being the skull, mou	ing down to the spine/
	vertical collum, which is also made up	
	of the core are the limbs, connected at	bull and Socket joints
	at the pp/shoulders comed the arm	. From the paris of
	the base of the he vertibre the legs	are coneched.
1		

0 marks

This response does not answer the question - no rewardable marks available.

(2)



Question 4c

This was a one mark memory recall question requiring the learner to know the name of the molecule that stores energy from section B4.6iii in the unit content.

A good response would have identified ATP for one mark.

(c) Give the name of the molecule that stores energy.

(1)

1 mark

ATP

The correct name given for one mark.

A poor response:

Minerals

(c) Give the name of the molecule that stores energy.

(1)

0 mark

'Minerals' is an incorrect answer and there were many incorrect responses seen- no rewardable mark.



Question 4d

This four mark question required the learner to demonstrate an understanding of slow twitch muscle fibres which is from section B4.6ii in the unit content.

A good response identified two features and explained each one as per the possible answers in the mark scheme to gain four marks.

(d) Explain two features of slow twitch muscle fibres. (4) fo the They dater in colour due are capillones. needed Oxygen amant oli OM aerobic respiration contrad. They Contract Sowly, but con a 2 meaning time seft Longer are distance in wolve

4 marks

Two correct features have been identified and explained to gain 4 marks.

A poor response:

(d) Explain two features of slow twitch muscle fibres.

ess min as so th on SI e to ran

0 marks

This response is incorrect – no rewardable marks.

(3)



Question 4e

A good response to this three mark question from section B2.1 of the unit content required the learner to demonstrate an understanding of how to prepare a sample of tissue to look at under the microscope, as per the descriptive points in the mark scheme to achieve three marks.

(e) Describe how to prepare a sample of tissue to look at under a microscope.

					(-)
Firstly	you =	3 would	peel	a thin	L
layer J	os ti	ssue og	ss and	then	())))))
U U	on to				
would					<u> </u>
	ng OL	(
	ate 1				
and flen	Place	anchor Ol	CSS Side (Total for Que	4 = 12 m	P narks)

3 marks

A complete description of the process to achieve three marks.

A poor response:

(e) Describe how to prepare a sample of tissue to look at under a microscope.

To prepare a sample of tissue, you need to have trissue at hand to use Then the sour sanitise the tissue and place in viewing discs under a microscope

0 marks

An inaccurate description of the process – no rewardable marks.

(3)



Question 5a

This was a one mark memory recall question requiring the learner to know where gaseous exchange takes place from section A4.10 in the unit content. A good response would have identified the Alveoli or Lungs for one mark.

5 Blood is the transport system for nutrients and gases to and from cells in an animal's body.

(a) State the site of gaseous exchange.

Hanas alveau

1 mark

The correct site stated for one mark.

A poor response:

- 5 Blood is the transport system for nutrients and gases to and from cells in an animal's body.
 - (a) State the site of gaseous exchange.

(1)

(1)

CELL MEMBRANE

0 mark

'Cell membrane' is an incorrect answer and there were many incorrect responses seen- no rewardable mark.



Question 5b

This four mark required the learner to demonstrate understanding of the processes involved in inhalation from section A4.8 of the unit content. A good response described the processes from the list in the mark scheme to achieve four marks.

(b) Describe the processes involved in inhalation in mammals.	
(4	4)
During inhalation, exygen is taken in	
through the respiratory system. The longs	
Volume Thoracic volume increases and the	
lung pressure decreases. The interrostal	
muscles and and this process, when you inhall	ι
the ribs and the condicipation contract elle	why
the lungs to expand and take in as mud	\wedge
Or as possibu.	

4 marks

A complete description of the processes to be awarded four marks for, thoracic volume increases (1), lung pressure deceases (1) intercostal muscles (1) diaphragm contracts (1).

A poor response:

(b) Describe the processes involved in inhalation in mammals.	
(4)	E.
Mammacs breath through their mouths or	
noses by respiration. Respiration is taking in	N : : :
orygen and transporting it into the blood	1491 899 999 994 - Mai (44 (44)
then around the body. 2 types of respiration	
is anearabic and aerobic repiration.	
Aerobic respiration doesn't require energy	
whereas an aerobic respiration requires tipenergy	<u></u>
0 marks	

An incorrect answer – no rewardable marks.



Question 5c

A good response to this two mark question from section A4.13 in the unit content required the learner to identify a role of the lymphatic system and explain it for two marks.

(c) Explain the role of the lymphatic system in immunity.	
	(2)
The role of the lymphatic system in	immunity
is to help produce white blood eeus onbib	
to fight off any disease or infection.	

2 marks

The role of the lymphatic system in immunity has been correctly identified and explained– 2 marks awarded.

A poor response:

(c) Explain the role of the lymphatic system in immunity.

(2)The yniphabic system helps fight aff diseases viruses and bud enal illnesses.

1 mark One mark awarded for identification of the role but no explanation given.



Question 5d

This was the first of two competency based questions with marks awarded for the response being at Level 1, Level 2 or Level 3. If no rewardable material was evident the learner scored 0 marks. There was a tendency to describe the cardiac cycle and not discuss the double circulatory system. A Level 3 response required mostly accurate and detailed knowledge of a double circulatory system with clear links to the advantages as suggested in the indicative content in the mark scheme.

(d) Discuss the double circulatory system, including its advantages. (8) blood as puniped in one session? blood tuce and the is pupped to both the lungs (deaugeneitee) entire body (aspenated) double as one event to from erent lungs to heart order to axygente in Kloeel at diffe oxygen to other organs/ body ised prevenses circu OAL er cercuit 23 hon to the body back in order for organs to and back to the heart in order repend th oxigen, and deckupenated based to guitel to the other for the circuit in order to be couponated again before suitdly back to the preveous circuit end so on.

An advantage . 13 that events core in / together to reduce energy consumption increase efficiency Maintaining Church/(0) Of bloed Str the NEST OF 01 and the one after anot organs of tegether then ne COA d out of the bool rich oxygen Supp dependant on organs work at half the Speed were especially the hed 10 hart has the augen atter first anount aut



8 marks

This response demonstrates accurate knowledge of the processes involved in a double circulatory system through a well-developed, logical discussion which includes relevant points and an explanation of its advantages. This is a Level 3 answer which was awarded 8 marks.

A poor response:

(d) Discuss the double circulatory system, including its advantages.

(8) one advantage of a double circulatory Sylten is that good / nutrients can be broken down much # faster, due to the high metabolic a role; and - TOOP

Another adventage istot that due to the high metabolism, energy can be produced much parter and Another equiciently

0 marks

This learner has attempted the question but confused the circulatory system with the digestive system. There are therefore no rewardable marks available.



Question 5e

This question from section A7.4 of the unit content required the learner to describe symptoms of Hypothermia and Hyperthermia as per the list in the mark scheme for four marks.

(e) Describe symptoms of the following disorders.	(4)
Hypothermia <u>is when me body temperature ge</u> mammals 1041, Merefore symptoms in a mmals mail	
Shirenng and being card ta louch	
Hyperthermia J. U.M.C. M.C. b.o.d.y. Flm.p.C. a.f	
100 Mgh, Martore Symptoms malade	
<u>fanning</u> and bung faltgue	

4 marks

A correct description of the symptoms for both disorders has been provided to be awarded four marks.

A poor response:

(e) Describe symptoms of the following disorders.

Hypothermia	too warm			
5.51				
	numb		os Arteurs	
Cant .	Seel them	16 the bo	w is keepir	y vital
OCOM	5 Sloe. v	svin cold		

0 marks

The symptoms are the wrong way round resulting in an incorrect answer – no rewardable marks.

(4)

(4)



Question 6a

This question is from section A7.1 in the unit content and required the learner to analyse the information they knew about normal temperature ranges in mammals and birds to explain the difference between them to be awarded four marks.

There was no evidence of a four mark response seen.

6 Endothermic animals maintain their body temperature.

(a) Explain the difference in temperatures of mammals and birds.

Mammals are endothermic and are able to maintain their temperature
through homeostasis, the average temperature for mammals can be
between 36-40°C. Dogs are between 37-39°C.
Birds mignite to avoid harsh weather conditions and have a connter current

Mechanism in their legs. This is when oxygenated blood warms the deoxygenated blood, reducing heart loss. Birds are eclothermic. They use seathers to heep warm. Chickens are between 40-43°C.

3 marks

This response demonstrates an understanding of both Mammals and Birds' temperatures but has not fully explained the difference between the two being related to their rates of metabolism and was awarded three marks.

A poor response:

- 6 Endothermic animals maintain their body temperature.
 - (a) Explain the difference in temperatures of mammals and birds.

			Lauren							(4)	
Birds	have	(A	Wither	6	pbo	ter	nperatu	re	Ehan	namnals	
			-								
because	6 ho		have	G	Lower		blood	den	sita		
	OTHE	3							3		

0 marks

An incorrect answer – no rewardable marks.

141



Question 6b

This was a one mark memory recall question requiring the learner to know the name of the organ that controls body temperature from section A7.2 in the unit content.

(b) State the name of the organ that controls body temperature.

(1)

Hypothalamus in the brain.

1 mark

'Hypothalamus' is the correct response to score 1 mark.

A poor response:	page og a	
(b) State the name of the organ that controls body temperature.	Prize A. C.	(1)
Kibreys		

0 marks

'Kidneys' is an incorrect response and there were many incorrect responses seen- no rewardable mark.



Question 6c

This four mark question from section A7.3i in the unit content required the learner to demonstrate understanding of evaporative cooling mechanisms to explain two ways animals lose heat for four marks.

(c) Explain two ways animals lose heat.	(4)
1 Through vacodilation which causes arteriotes to expand	This
increases the sugare area and allows for more 610000,	enabling
heat 1055. This is because more blood is closer to the skin.	
2 Sweating, the evaporation of sweat cods the animal down.	
can be through paris.	

4 marks

A complete accurate response as per the mark scheme to achieve the full four marks.

A poor response:

(c) Explain two ways animals lose heat.	
	(4)
1 Animals tomputatures lose heat when they are a asleep because	their
blood is being pumped round slower.	

2 If an animal the hypothermia they will loose heat due to them having a fever.

0 marks

This response does not answer the question – no rewardable marks.



Question 6d

A good response to this two mark question from section C1.3 in the unit content required the learner to demonstrate understanding of the distinguishing features of the vertebrate class Pisces to be awarded two marks.

(d) State two features that distinguish Pisces from other vertebrate classes.	(2)
1 Gills to breath instead of longs	(2)
2 They live booten to water all o the time and can't breath out of	

2 marks

An accurate response as per the mark scheme achieving the full two marks.

A poor response:

(d) State two features that	distinguish Pisces from other vert	ebrate classes. (2)
1 Cold blooded		
	<i>F</i> ,	-
2 lay their eggs in	n the water	i f

0 marks

This response is incorrect- no rewardable marks.



Question 7

This was the second competency based question and the last question on the paper which had eight available marks awardable for the overall accuracy, detailed knowledge and understanding plus a well-developed discussion with relevant points about the principles of natural selection. It is from section C1.2 of the Unit Content and allowed the learner to discuss examples of species being affected by selective pressures leading to variations and natural selection of the best adapted to survive.

7 Animals can adapt to different environments over time.
Discuss the principles of natural selection in animals. (8)
Variations lead to adaptations which
Could read to specielizing.
Natural Selection This leads to evolution over
a long pervosel of time. Anotomical Behavioured Physiological.
- Phylogenetic trees allow us to see
evolutionary relationships Looking at DrvA and
evolutionary relationships working at DrvA and physical traits from ancestors and descendants.
Charles Danvins theory of evolution is a process of which and enimal/species is
able to reproduce successfully and pass on
genetic incure - up - The sole purpose of
animals. Changes to the environment may
affect this process and cause adaptertions
in the forms of cinotomicat, physicloguest
and behavioured. We get to this stage
through variation. This is a survived
product guing a specific individual en
advantage one the others. For example,
one graffes neck maybe slightly longer
which allows that graffe the oppertunity
for fresher and more nutritices good sources.



8 marks

This response demonstrates accurate knowledge of the principles of natural selection with good examples logical discussed and linked to the survival of the species over time.

This is a Level 3 answer which was credited with 8 marks.

A poor response:

7	Animals can adapt to different environments over time.	
	Discuss the principles of natural selection in animals.	(0)
		(8)
	There are diggerent animals that can live in bot	ta
	hot and cord environments. A seal is an example	oj.
	this as you can gird seals in grozen areas, and in	
	hot clear areas. A seal is adapted to live in both	
	really cold and really hot conditions and enviro	nments
	as they have thick muscle and sutty tissues to be	кp
	them well insulated in the cold, grozen environment	S
	to prevent them from losing there heat. The gutte)
	tissues are like a thick wall all acound the body whi	ch
	generates heat whilst in the cold environment. A sea	<u> </u>
	can also adapt to hot environments as a seal	has
нин	sweat glands which will prevent them grom over	
	heating due to the thrick muscles and gatty cells	

0 marks

This response does not answer the question regarding 'natural selection', the learner has focused on the stem of the question regarding 'adapting to different environments' and not related selection pressures leading to variation and natural selection over time.



Summary

Based on the performance on this paper learners should:

- Be familiar with the function / role / location of organs and tissues and components of the body systems. Know the effect of a named disease on the body from the unit content.
- Be able to differentiate between fast and slow twitch muscles.
- Know the processes involved in inhalation and the lymphatic system.
- Know the temperature difference between mammals and birds and understand the reason.
- Differentiate between nerve impulses and neurons, separate to receptors and sense organs.
- Know all the structures in the eye and their functions.
- Know names of hormones and their functions.
- Read the question to ensure the answer given reflects what has been asked i.e. the 'appearance' not 'function' of skeletal muscle.
- Be familiar with all body systems and understand the advantages of different systems in different species i.e. the ruminant digestive system and the double circulatory system.
- Practice the levels-based, extended response questions to ensure a Level 3 answer includes a well-developed and logical discussion with accurate knowledge relevant to the context of the question, plus clear links which consider a range of different aspects and inter-relationships with body systems. This will then gain the 6-8 marks for each of the two levels-based questions included in the paper.
- Responses should be based on the command verb in the question i.e. 'state' / 'give' do not require expansion of a point but 'explain' / 'describe' do.
- Identify the marks allocated to the question and the space available to guide the extent of the response required and ensure the answer is included in the appropriate point / label.
- Practice papers from previous series to become familiar with the content and style of questions asked.









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