

Cambridge Technicals Health and Social Care

Unit 4: Anatomy and physiology for health and social care

Level 3 Cambridge Technical in Health and Social Care 05830 – 05833

Mark Scheme for January 2021

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

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Annotations – These are the annotations to be used when marking Unit 4:

Annotation	Meaning
V	Tick – correct answer
×	Cross – incorrect answer
+	Plus – use for positives
	Minus – use for negatives
L1	Level 1
L2	Level 2
L3	Level 3
BOD	Benefit of doubt (This does count as a mark – so do not 'tick' as well)
^	Omission mark
TV	Too vague
REP	Repeat
SEEN Or	Noted but no credit given

Q	Question		Answer	Marks	Guidance	
1	(a)	(i)	 One mark for an identification, one required. adrenal Do not accept: adrenalin 	1 (1x1)	Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross or appropriate annotation from the following:	
1	(a) (a)	(ii) (iii)	 One mark for an identification, one required. insulin One mark for an identification, one required. 	1 (1x1) 1	No other answers are acceptable. Annotation: The number of ticks must match the number of marks awarded.	
1	(a)	(iv)	 pituitary One mark for an identification, one required. 	(1x1)	For incorrect answers use the cross . No other answers are acceptable . If multiple responses are given for each question, mark as	
			• pituitary	(1x1)	incorrect.	

Q	uesti	on	Answer		Guidance	
1	(b)	(i)	 One mark for a function, two required Endocrine functions: produces insulin. which lowers blood sugar (glucose) levels. produces glucagon. which increases blood sugar (glucose) levels. controls/regulates blood sugar (glucose) levels. 	2 (2x1)	Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross or appropriate annotation from the following: If more responses provided as each answer, mark the first response only. If they say "produces insulin which lowers blood sugar levels" (this is worth 2 marks)	
1	(b)	(ii)	 One mark for a function, two required Digestive function: produces enzymes (lipase and amylase). which break down food (fat/carbohydrate/protein) molecules. produces pancreatic juice. which neutralises stomach acid/chyme. and also breaks down food (fat/carbohydrate/protein) 	2 (2x1)	Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross or appropriate annotation from the following: If more responses provided as each answer, mark the first response only. If they say "produces enzymes which break down food (fat/carbohydrate/protein) molecules" (this is worth 2 marks).	

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Q	Question		Answer		Marks	Guidance
1	(c)		One mark for correct identification, five required.		5 (5x1)	Annotation: The number of ticks must match the number of marks awarded.
			Structure	Letter		For incorrect answers use the cross .
			Pancreatic duct	С		
			Stomach	В		No other answers are acceptable.
			Bile duct	D		DO NOT ALLOW multiple letters given in a box.
		Gall bladderEOesophagusA		If multiple letters are provided in each answer box: 0 marks.		
			Oesophagus	Α		
1	(d)		 One mark for each correct answer, six req The answers must be given as ordered be sentences in the passage. churns mechanical acid enzyme protein chemical 	-	6 (6x1)	 Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross. No other answers are acceptable. If more than response is provided in each answer space: 0 marks

0	stion	Answer/Indicative Content	Marks	Guidance			
Que	5000		Ivial K5	Content	Levels of response		
1	(e)*	Discuss the possible impacts of cirrhosis on Nina's lifestyle. Physical impacts tiredness, jaundice, swelling of legs, side-effects of medication, ascites etc could result in: • work issues • problems exercise • inability to perform personal care. • becoming housebound • might have to exercise more • eat a healthier diet Emotional / mental impacts loss of independence, itchy skin, waiting for transplant or surgery, requiring care from family members etc could result in: • frustration • depression • insomnia • guilt Communication impacts memory loss and confusion could result in: • isolation • inability to express feeling Social impacts • changes in diet (can't eat out with friends) • inability to work (no contact with colleagues) • stop drinking (can't go out with friends) Examples of possible impacts on lifestyle (not exhaustive)	8	 This is a levels of response question – marks are awarded on the quality of the response given. The focus of the question is discuss. Annotation: The number of ticks will not necessarily correspond to the marks awarded. Level 3 checklist: At least two different types of impact Fully detailed discussion Well-developed, clear and logically structured Factually accurate & relevant Correct use of terminology QWC – high Level 2 checklist: Two different types of impact Sound discussion Mostly relevant and accurate information QWC - mid Level 1 checklist: Limited / basic discussion Basic information Limited structure, may be list like or muddled QWC - low 	Level 3 [7-8 marks] Answers provide a detailed discussion of impacts using accurate terminology and following a logical sequence. Sentences and paragraphs are relevant with accurate use of appropriate terminology There will be few, if any, errors of grammar, punctuation and spelling. Level 2 [4-6 marks] The answer provides a sound discussion of two different types of impact. Answers will be factually accurate and mostly relevant. There may be some errors of grammar, punctuation and spelling. Sub-max of 4 if only one impact done well. Level 1 [1-3 marks] Answer provides a limited or basic discussion of impacts. May be a description / identification only. Answers may be list like, muddled, demonstrating little knowledge or understanding. Errors of grammar and spelling may be noticeable and intrusive. 0 marks – response not worthy of credit. SEEN for a zero mark response		

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Q	Question		Answer		Marks	Guidance	
2	(a)		One mark for correct identification	, four required.	4 (4x1)	Annotation: The number of ticks must match the number of marks awarded.	
			Structure	Letter		For incorrect answers use the cross .	
			Synovial capsule	Q			
			Cartilage	S		No other answers are acceptable.	
			Synovial fluid	т		DO NOT ALLOW multiple letters given in a box.	
			Tendon	R		If multiple letters are provided in each answer box: 0	
			Bone U n	marks.			
2	(b)		One mark for correct identification • ball and socket • pivot • sliding/gliding • fixed • condyloid • saddle	, two required.	2 (2x1)	Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross or appropriate annotation from the following: TY REP SEEN Do not accept: hinge If more responses provided as each answer, mark the first response only.	

C	luesti	on	Answer	Marks	Guidance
2	(c)	(i)	One mark for malfunction and one mark for associated symptom Malfunction: Osteoarthritis Symptoms: painful joints (pain alone is too vague) stiff joints limited range of movement swelling joints Malfunction: Rheumatoid arthritis Symptoms: painful joints stiff joints swelling of joints limited range of movement Malfunction: Osteoporosis Symptoms: bones fracture easily (brittle/weak bones is too vague) loss of height curvature of spine loss of hearing Don't accept difficulties in walking or pain for osteoporosis, as they are a result of a fracture not the disease itself Lists of symptoms.	2 (2x1)	Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross or appropriate annotation from the following: If more responses provided as each answer, mark the first response only. Accept arthritis and symptoms

Question	Answer/Indicative Content	Marks	Guidance		
Question		Wialks	Content	Levels of response	
2 (C) (ii)*	 For the malfunction you have identified in (c)(i) explain the impact on the daily life of an individual suffering from this condition. General effects of all conditions may have side-effects due to medication have to change routine to attend appointments need to change diet to improve symptoms may become housebound due to immobility/pain (for osteoporosis must link to fractures) inability to work could result in financial issues e.g. debt. Osteoarthritis need to take exercise to keep joints moving problems with daily activities e.g. preparing meals due to stiff joints pain causes issues sleep and psychological effects abnormal gait/limp might be embarrassing Rheumatoid Arthritis fusion of bones (Ankylosis) could which results in loss of movement deformity of joints might be embarrassing. Osteoporosis take care to avoid fractures due to loss in bone density 	6	the question is explain . Annotation: The number of ticks will not	Answers provide a detailed explanation of the impact of the identified malfunction. Answers are coherent, clear and logically structured, with a well-developed line of reasoning. Answers are factually accurate and use appropriate terminology. There will be few, if any, errors of grammar, punctuation and spelling. Level 2 [3-4 marks] The answer provides a sound explanation of the impact of the identified malfunction. Answers will be mostly relevant and factually accurate. There may be some errors of grammar, punctuation and spelling. Sub-max 3 if impact of arthritis on daily life explained well. Level 1 [1-2 marks] Answer provides a limited or basic explanation of impact of malfunction. May be a description / identification only. Answers may be list like, muddled, demonstrating little knowledge or understanding. Errors of grammar and spelling may be noticeable and intrusive. for a zero mark response	

Question		Marks	Guidance				
Question		Wial KS	Content	Levels of response			
2 (d)*	Describe the role of different blood components in the functions of blood. White blood cell/ leucocyte: • preventing infection/fight infection lymphocytes: • role in immune system • e.g. produce antibodies • B-lymphocytes • e.g. destroy other cells • T-lymphocytes • engulf microorganisms Monocytes: • prevent infection in tissues • destroys damaged cells Platelets: • combine with clotting factors • and fibrin • to form a scab • prevent the loss of blood Plasma: • transport • e.g. of glucose, carbon dioxide, urea, hormones • temperature regulation • maintains blood pressure	6	 This is a levels of response question – marks are awarded on the quality of the response given. The focus of the question is discuss. Annotation: The number of ticks will not necessarily correspond to the marks awarded. Level 3 checklist: Detailed description of the role of two or more blood components Clear knowledge & understanding of function of different blood components Appropriate terminology Well-developed line of reasoning Logically structured QWC - high Level 2 checklist: Sound description of the role of one or two blood components Information is mostly relevant and accurate Sub-max of 3 for only one role/ component done well QWC - mid Level 1 checklist: Limited description Basic information Limited structure, may be list like or muddled QWC - low 	Level 3 [5-6 marks] Answers provide a detailed description of the role of blood components. Answers will be coherent, factually accurate and use appropriate terminology. Answers will be logically structured with a well-developed line of reasoning. There will be few, if any, errors of grammar, punctuation and spelling. Level 2 [3-4 marks] The answer provides a sound description of the role of blood components. Answers will be factually accurate and mostly relevant. There may be some errors of grammar, punctuation and spelling. Sub-max of 3 for only one blood component and its function done well Level 1 [1-2 marks] Answer provides a limited or basic description of the role of blood components. May be identification only. Answers may be list like, muddled, demonstrating little knowledge or understanding. Errors of grammar and spelling may be noticeable and intrusive. 0 marks – response not worthy of credit. SEEN for a zero mark response			

Q	Question		Answer		Guidance	
3	(a)	(i)	 One mark for correct identification, two required. Two from: auditory nerve semi-circular canals cochlea 	2 (2x1)	Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross or appropriate annotation from the following:	
3	(a)	(ii)	 One mark for correct identification, one required. semi-circular canals 	1 (1x1)	No other answers are acceptable. If more than response is provided in each answer	
3	(a)	(iii)	 One mark for correct identification, one required. semi-circular canals 	1 (1x1)	- space: 0 marks	
3	(a)	(iv)	 One mark for correct identification, one required. ear drum/tympanic membrane 	1 (1x1)		

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Q	uestion	Answer		Marks	Guidance
3	(b)	One mark for correct identification, one required. Statements It converts sound waves into nerve impulses	Tick (√) one only	1 (1x1)	Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross.
	It amplifies sound waves. It enables vibrations to be passed through the inner			No other answers are acceptable. If more than one box is ticked: 0 marks	
		ear. It ensures equal pressure between the outside of the ear and the middle ear.	✓		

Question	Answer/Indicative Content	Marks	Guidance			
Question		Walks	Content	Levels of response		
3 (c)*	 Explain the effects of deafness and possible treatments available. Examples with explanations to include: Effects e.g. blockage due to ear wax / damage to hair cells can cause sound waves not reaching the cochlea sound waves not converted to electrical impulses difficulty with communication e.g. hearing what other people say e.g. difficulty with telephone conversations e.g. can't hear TV social isolation frustration low self-esteem may have to learn sign language/lip reading Treatments ear drops to dissolve blockages. syringing to remove ear wax blockages. hearing aids to make sounds louder. implants e.g. in cochlea to replace function of inner ear / cochlea antibiotics to treat ear infections. grommets to drain fluid from middle ear. 	6	 This is a levels of response question – marks are awarded on the quality of the response given. The focus of the question is explain. Annotation: The number of ticks will not necessarily correspond to the marks awarded. Level 3 checklist: Detailed explanation Clear knowledge & understanding of effects of deafness Explanation explicitly linked to effects of deafness and treatments Appropriate terminology Well-developed line of reasoning Logically structured QWC - high Level 2 checklist: Sound explanation Some reference to effects of deafness and treatments Mostly relevant and accurate information Sub-max of 3 if one of either effects OR possible treatments done well QWC - mid Level 1 checklist: Limited / basic description Basic information Limited structure, may be list like or muddled QWC - low 	Level 3 [5-6 marks] Answers provide a detailed explanation of deafness and treatments. Answers will be coherent, factually accurate and use appropriate terminology. Answers will be logically structured and have a well- developed line of reasoning. There will be few, if any, errors of grammar, punctuation and spelling. Level 2 [3-4 marks] The answer provides explanation of deafness and treatments. Answers will be factually accurate and mostly relevant. There may be some errors of grammar, punctuation and spelling. Sub-max of 3 if only one of either effects OR possible treatments done well. Level 1 [1-2 marks] Answer provides a limited or basic explanation of effects of deafness and treatments. May be a descriptive or identification only. Answers may be list like, muddled, demonstrating little knowledge or understanding. Errors of grammar and spelling may be noticeable and intrusive. 0 marks – response not worthy of credit. SEEN for a zero mark response		

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Q	Question		Answer		Marks	Guidance
3	3 (d)		One mark for correct identification, one require	ark for correct identification, one required.		Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross.
		Parts of the brain Tick (✓) one only	(1x1)			
			Hypothalamus			
			Cerebral cortex	✓		No other answers are acceptable. If more than one box is ticked: 0 marks
			Medulla (oblongata)			
			Corpus callosum			

Question	Answer/Indicative Content	Marks	Guidance			
Question		wiai K5	Content	Levels of response		
3 (e)*	Examples of possible biological causes: Haemorrhagic stroke weak blood vessel aneurysm blood vessel bursts in brain / skull bleeding in brain damages cells increased pressure damages brain cells Ischaemic stroke/TIA obstruction in blood vessel atheroma plaques/fatty deposits blood clot restricts blood flow to brain oxygen supply reduced. brain cells damaged/die Examples of possible lifestyle factors: High blood pressure / High salt diet increases damage risk to blood vessels High blood cholesterol levels / High fat diet increased risk of atheroma Smoking/Diabetes damages lining of blood vessels increased risk of obesity Examples are not exhaustive, credit other appropriate causes / lifestyle factors.	8	This is a levels of response question – marks are awarded on the quality of the response given. The focus of the question is explain. Annotation: The number of ticks will not necessarily correspond to the marks awarded. Level 3 checklist: Must have both physical and at least 2 lifestyle causes Fully detailed explanation Well-developed, clear and logically structured Factually accurate & relevant Correct use of terminology QWC – high Level 2 checklist: Sound explanation Some reference to biological and at least 2 lifestyle causes May be unbalanced with just biological or just lifestyle Mostly relevant and accurate information Sub-max of 4 if one of either physical or lifestyle causes QWC - mid Level 1 checklist: Limited / basic explanation Basic information Aspect of one cause or lifestyle factor Limited structure, may be list like or muddled QWC – low	Level 3 [7-8 marks] Answers provide a detailed explanation of biological causes and lifestyle factors using accurate terminology. Answers follow a logical structure. Sentences and paragraphs are relevant with accurate use of appropriate terminology. There will be few, if any, errors of grammar, punctuation and spelling Level 2 [4-6 marks] The answer provides a sound explanation of causes and lifestyle factors. Answers will be factually accurate and mostly relevant. There may be some errors of grammar, punctuation and spelling. Sub-max of 4 if one of either physical OR lifestyle causes done well. Level 1 [1-3 marks] Answer provides a limited or basic explanation. May be a descriptive or identification only. Answers may be list like, muddled, demonstrating little knowledge or understanding. Errors of grammar and spelling may be noticeable and intrusive. 0 marks – response not worthy of credit. SEEN for a zero mark response		

Q	Question			Answer					Marks	Guidance
4	(a)		O	ne mark	for each correct answer, four	require	ed.		4 (4x1)	Annotation: The number of ticks must match the number of marks awarded.
					Statement		True or Fa	lse	()	For incorrect answers use the cross .
					ic respiration produces more A	TP	True or	т		Accept tick for true and cross for false.
					ic respiration takes place in nondria.		True or	т		No other answers are acceptable.
				Anaer oxyge	obic respiration needs glucose n.	and	False or	F		If more than one response is provided per statement: 0 marks
				Lactic respir	acid is produced during aerobi ation.	ic	False or	F		
4	(b)		Οι	ne mark	for an identification, one requi	ired.			1 (1x1)	Annotation: The number of ticks must match the number of marks awarded.
					Processes	Tic	ck (√) one only		(171)	For incorrect answers use the cross .
					Assimilation					
					Absorption					No other answers are acceptable.
					Diffusion		\checkmark			If more than one box is ticked: 0 marks
					Inspiration					

Question	Answer	Marks	Guidance
4 (c) (i)	One mark for an identification, two required Cause of asthma: • Genetic predisposition (don't accept born with it) • Narrowing of airways • Muscles of bronchioles/airways constrict • Walls of bronchioles become inflamed • Production of mucus Allergens/triggers e.g • Tobacco smoke • Air pollution • Dust mites • Pollen • Pet hair Cause of emphysema: • Destruction of alveolar walls • Air trapping • Reduced sites for gaseous exchange • Smoking • Dust • Occupational hazard e.g. exposure to chemicals These lists are not exhaustive, accept other appropriate, correct causes.	2 (2x1)	Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross or appropriate annotation from the following: If more responses provided as each answer, mark the first response only.

	Question		Marks	Guidance						
			Walks	Content	Levels of response					
4	(c)	(ii)*	8	 Evaluate lifestyle changes and care needed to help an individual manage emphysema. This is a levels of response question – marks are awarded on the quality of the response given. The focus of the question is evaluate. Annotation: The number of ticks will not necessarily correspond to the marks awarded. Level 3 checklist: Fully detailed evaluation At least two different lifestyle changes and two different care needs Both positives and negatives Well-developed, clear and logically structured Factually accurate & relevant Correct use of terminology QWC – high Level 2 checklist: Sound evaluation One or more different lifestyle changes and one or more care need Both positives and negatives for at least one of these Mostly relevant and accurate information Sub-max of 4 for one lifestyle change or one care need well done QWC - mid Level 1 checklist: Limited / basic evaluation Basic information Positive or negative of either lifestyle change or care need Limited structure, may be list like or muddled QWC – low 	 Level 3 [7-8 marks] Answers provide a detailed evaluation of two or more different lifestyle changes and two or more different care needs. Answers follow a logical sequence. Both positives and negatives will be given. Answers will be factually accurate and relevant with accurate use of appropriate terminology. There will be few, if any, errors of grammar, punctuation and spelling. Level 2 [4-6 marks] The answer provides a sound evaluation of two possible lifestyle changes or care needs. Positive and negative for at least one of these will be given. Answers will be factually accurate. There may be some errors of grammar, punctuation and spelling. Sub-max of 4 for one lifestyle change or one care need well done. Or a response that only covers positives or negatives. Level 1 [1-3 marks] Answer provides a limited or basic evaluation with either positive or negative for one lifestyle change or care need. May be a description / identification only. Answers may be list like, muddled, demonstrating little knowledge or understanding. Errors of grammar and spelling may be noticeable and intrusive. O marks – response not worthy of credit. 					

	Answer/Indicative content	
LIFESTYLE CHANGES	Positive	Negatives
Give up smoking	 slow progress of disease reduces lung irritation improves breathing less likely to become short of breath 	 difficult to do as very addictive possible mood changes possible depression may curtail social activities
Avoid air pollution	 slow progress of disease reduces lung irritation improves breathing less likely to become short of breath 	 difficult to do depending on where you live e.g. in a city may have to wear mask may result in being unable to go outside may affect emotional well-being
Change in work	 reduce exposure to harmful chemicals slow progress of disease get better job 	 loss of income debt loss of self-esteem
CARE NEEDS	Positive	Negatives
Oxygen cylinders installed	assist with breathing	need to be connected to machinedisruption to normal routines
Mobility aids	 assist with going upstairs can still use bedrooms can get out of the house to shop 	house modification may be neededaffect on other family members
Home help	can remain in own home	 lose independence affect on other family members cost

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Q	Question		Answer			Guidance
5	(a)	One mark for an identification, four required.		4 (4x1)	Annotation: The number of ticks must match the number of marks awarded.
			Statement	Structure		For incorrect answers use the cross or appropriate annotation
			The outer layer of the kidney.	cortex		from the following:
			A tube that carries urine from the kidney to the bladder.	ureter		
			A chamber that collects urine.	calyx		No other answers are acceptable.
			A tube that passes urine out of the body.	urethra		If more than response is provided in one box: 0 marks

Questi	on Answer	Marks	Guidance	
Question (b)	 For each function, one mark for identifying and one mark for describing the function. Function: Osmoregulation (accept regulation of water levels) Description: regulates water balance in body maintains water potential/concentration in blood occurs in collecting duct Function: Excretion Description: waste products are removed from the blood for example urea 	Marks 4 (1x4)	Guidance Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross or appropriate annotation from the following: TY REP SEEN	
	 Ultrafiltration (don't accept filtering alone) Description: occurs in Glomerulus/ Bowmans capsule hydrostatic pressure forces plasma and dissolved products out of the blood Function: Selective reabsorption (don't accept reabsorption alone) Description: puts useful molecules back into blood e.g. glucose / amino acids reabsorbed occurs in (proximal) convoluted tubule. 			

Q	Question		Answer	Marks	Guidance
5	5 (c)		One mark for an identification, one required.Renal Artery		Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross.
					No other answers are acceptable. If more responses provided as each answer, mark the first response only.

Question	Answer/Indicative Content	Marke	Guidance			
Question		IVIAI NS	Content	Levels of response		
Question 5 (d) (i)	 Compare the structure of the artery in the diagram with the structure of a vein and a capillary. all have endothelium / inner lining Artery: thickest wall more muscle no valves more elastic fibres small lumen / small internal diameter Vein: thin wall less muscle than artery valves 	Marks 77 6	ContentThis is a levels of response question – marks are awarded on the quality of the response given. The focus of the question is compare.Annotation: The number of ticks will not necessarily correspond to the marks awarded.Level 3 checklist: • Detailed comparison • Clear knowledge & understanding blood 	Levels of response Level 3 [5-6 marks] Answers provide a detailed comparison of blood vessel structure, which includes arteries, veins and capillaries. Answers will be coherent, factually accurate and use appropriate terminology. Answers will be logically structured and have a well-developed line of reasoning. There will be few, if any, errors of grammar, punctuation and spelling.		
	 less elastic fibres than artery large lumen / large internal diameter Capillary: thinnest wall single layer of cells no muscle no elastic fibres no valves narrow lumen well-developed line of reasoning logically structured Candidates should be comparing the structural features e.g. "Arteries have thicker walls than veins and capillaries" For L3 candidates should be linking structure to function.		 QWC - high Level 2 checklist: Sound comparison Some reference to aspects blood vessel structure Mostly relevant and accurate information Sub-max of 3 if only two of arteries, veins and capillaries QWC - mid Level 1 checklist: Limited / basic comparison Basic information Limited structure, may be list like or muddled QWC - low Be aware of candidates simply repeating information from the diagram. 	 may be some errors of grammar, punctuation and spelling. Sub-max of 3 if only two of arteries, veins and capillaries compared. Or no comparison between structures. Level 1 [1-2 marks] Answer provides a limited or basic comparison of blood vessel structure. May be a identification only. Answers may be list like, muddled, demonstrating little knowledge or understanding. Errors of grammar and spelling may be noticeable and intrusive. 0 marks – response not worthy of credit. SEEN for a zero mark response		

Q	Question		Answer		Guidance	
5	(d)	(ii)	 One mark for an effect, two required. angina tight chest breathlessness/difficulties breathing/get tired easily palpitations unexplained sweating dizziness chest pain pain in arm or jaw nausea heart attack high blood pressure high (resting) heart rate Accept any other correct responses. 	2 (2x1)	Annotation: The number of ticks must match the number of marks awarded. For incorrect answers use the cross or appropriate annotation from the following: If more responses provided as each answer, mark the first response only.	

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