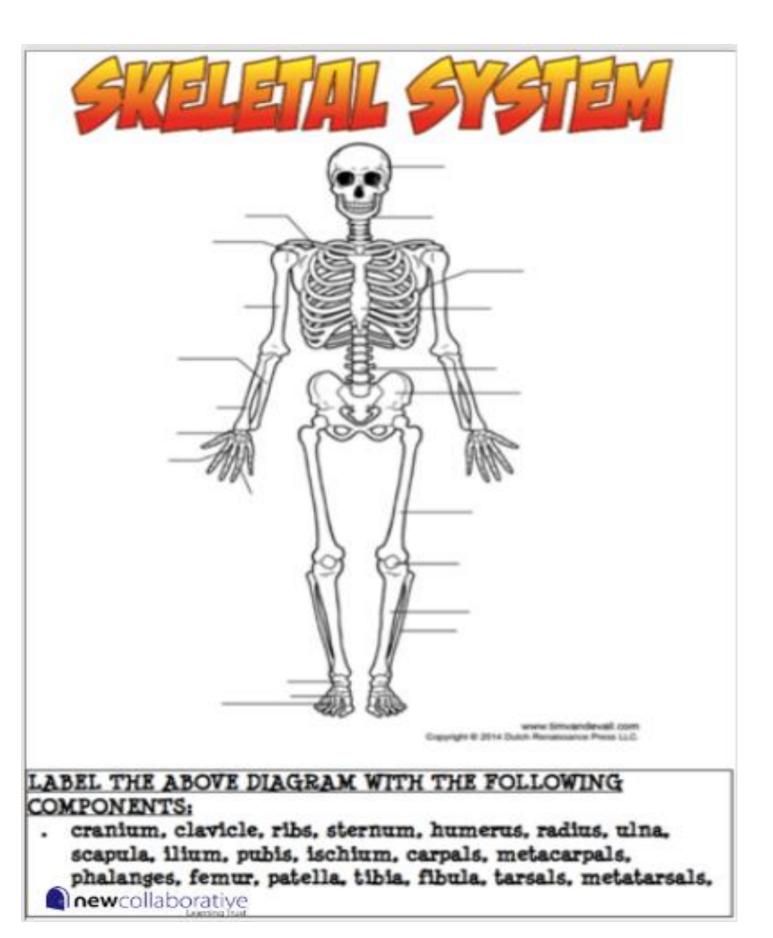


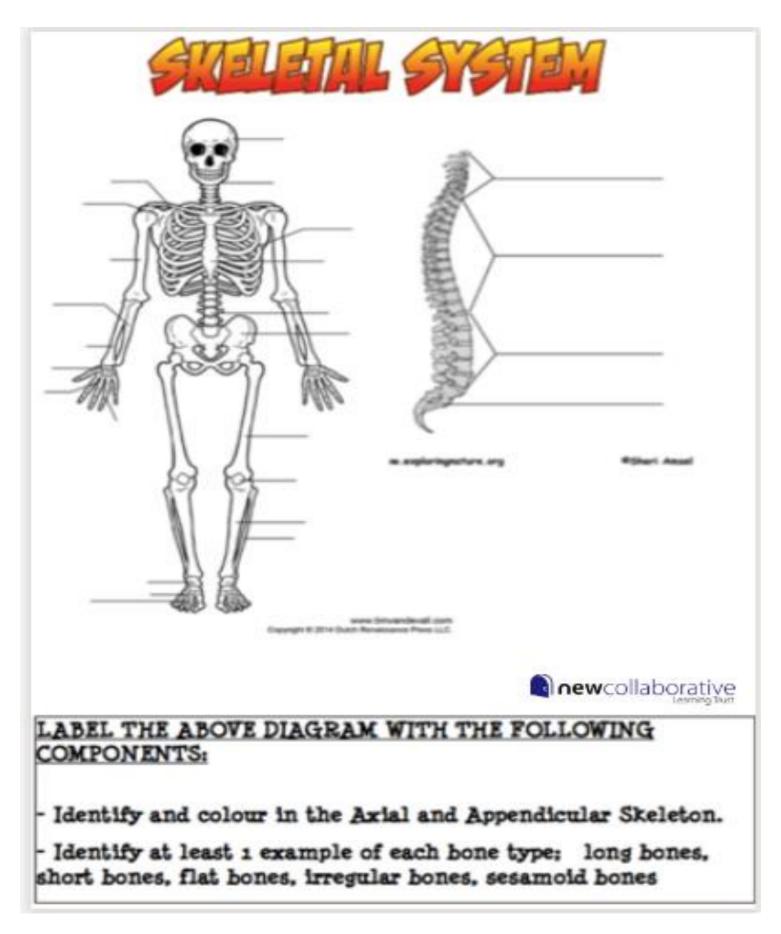
Compulsory Task: Body systems













Questions

Q1.

Figure 1 shows the bones of the upper body. Identify the bones labelled **A-C**.

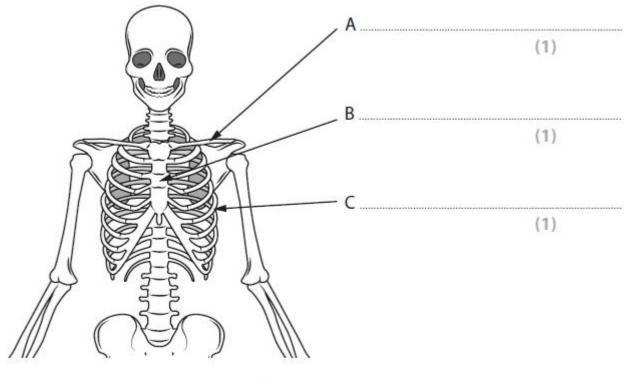


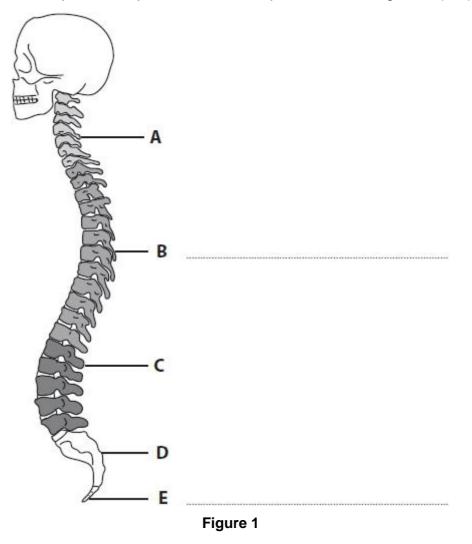
Figure 1

(Total for question = 3 marks)

Q2.

Figure 1 shows the regions of the vertebral column. Identify the regions labelled **B** and **E**.



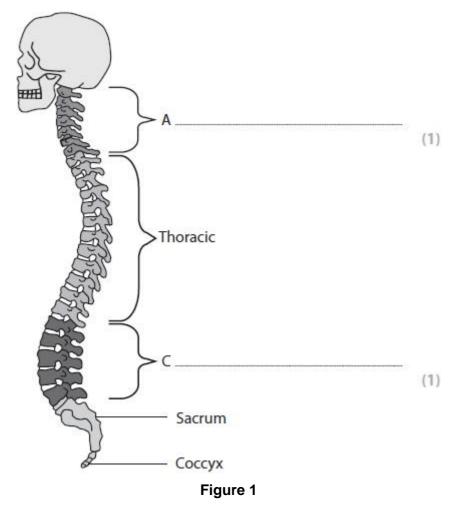


(Total for question = 2 marks)

Q3.

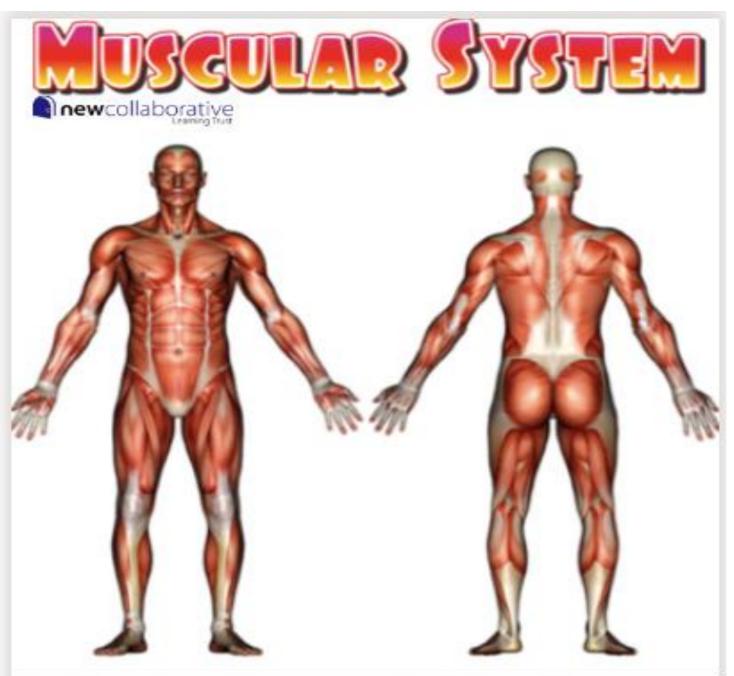
Figure 1 shows the regions of the vertebral column. Identify the regions labelled A and C.





(Total for question = 2 marks)





Identify and describe the 3 different types of muscle found within the body.

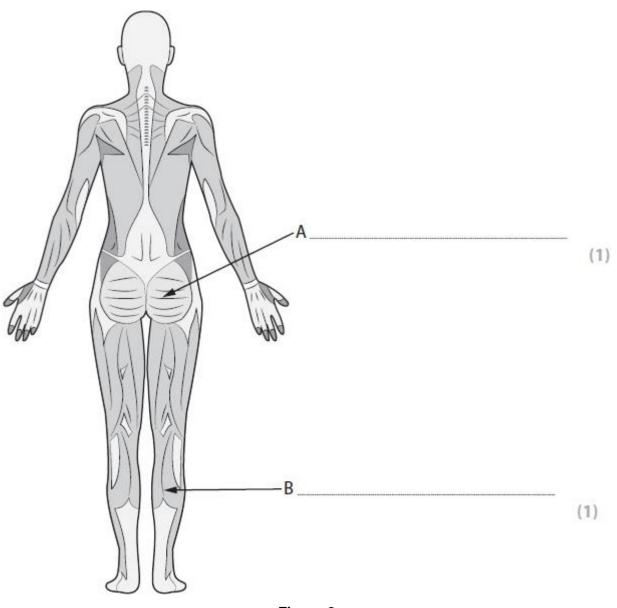
LABEL THE DIAGRAM ABOVE WITH THE FOLLOWING MUSCLES:

biceps, triceps, deltoids, pectoralis major, rectus abdominis, rectus femoris, vastus lateralis, vastus medialis, vastus intermedius, semimembranosus, semitendinosus, biceps femoris, gastrocnemius, soleus, tibialis anterior, erector spinae, teres major, trapezius, latissimus dorsi, obliques, gluteus maximus



Q4.

Figure 2 shows the posterior view of the skeletal muscles of the body. Identify the muscles labelled **A and B**.





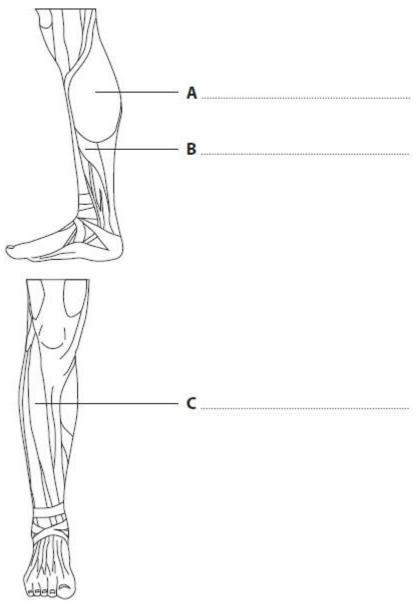
(Total for question = 2 marks)



Q5.

Figure 2 shows the muscles in the lower leg.

Identify the muscles labelled A-C in Figure 2.





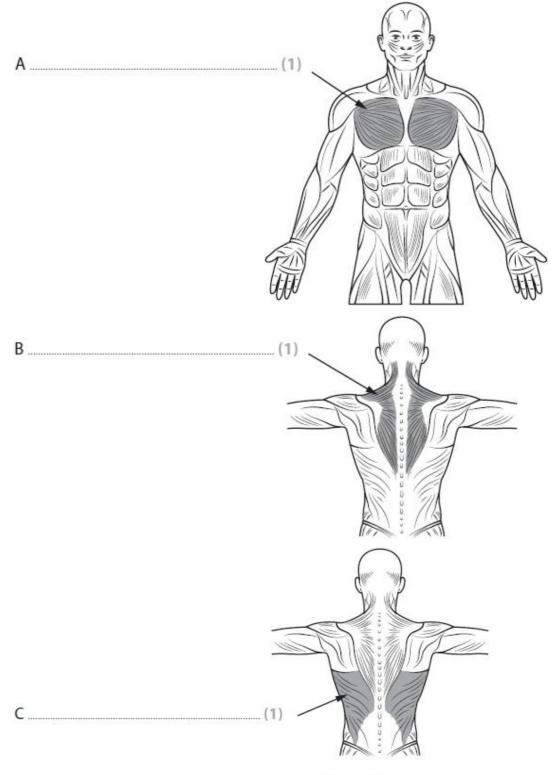
(Total for question = 3 marks)



Q6.

Figure 2 shows the muscles in the upper body.

Identify the muscles labelled A-C.





Q7.

Figure 3 shows an athlete jumping over a hurdle.





Complete Table 2 by

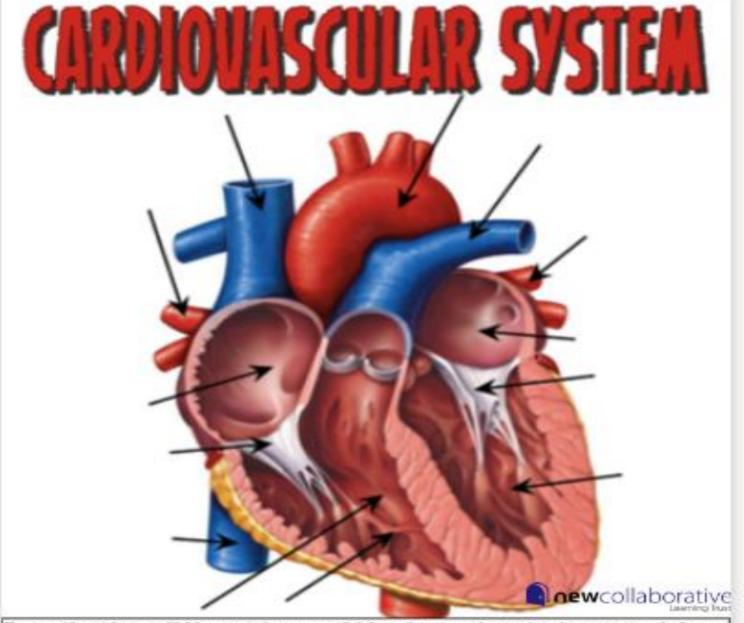
- (a) identifying the agonist muscles
- (b) identifying the type of contraction of the agonist for each movement.

(2)

(2)

| Joint movement | (a) Agonist | (b) Type of contraction |
|---------------------------|-------------|-------------------------|
| Knee extension (lead leg) | | |
| Knee flexion (trail leg) | | |





Describe the 5 different types of blood vessel (Arteries, Arterioles, Capillaries, Venules, Veins)

LABEL THE ABOVE DIAGRAM WITH THE FOLLOWING COMPONENTS:

atria, ventricles, bicuspid valve, tricuspid valve, aortic valve,

pulmonary valve, aorta, vena cava - superior and inferior,

pulmonary vein, pulmonary artery



Q8. One characteristic of cardiac muscle is that it is non-fatiguing. State **one other** characteristic of cardiac muscle.

.....

(Total for question = 1 mark)

(1)

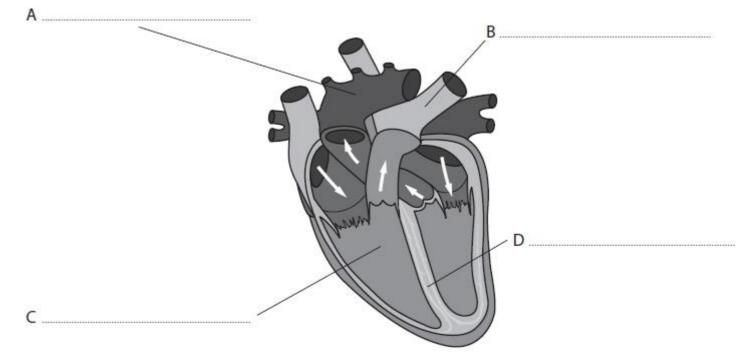
| Q9. State the function of the tricuspid valve. | |
|--|--|
| | |
| | |
| | |

(Total for question = 2 marks)

Q10.

Figure 3 shows the heart.

Identify the structures of the heart labelled **A–D** in **Figure 3**.

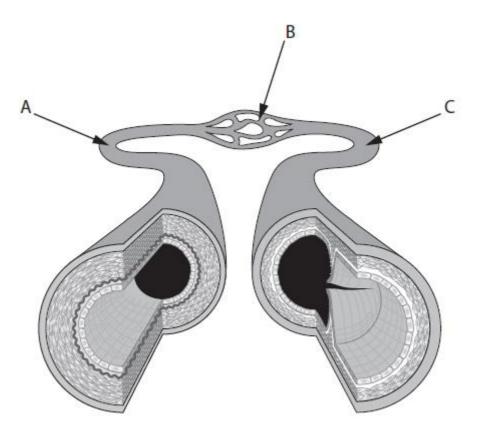




(Total for question = 4 marks)

(3)

Q11. Figure 2 shows the various types of blood vessel. Name the blood vessels labelled A–C in Figure 2.



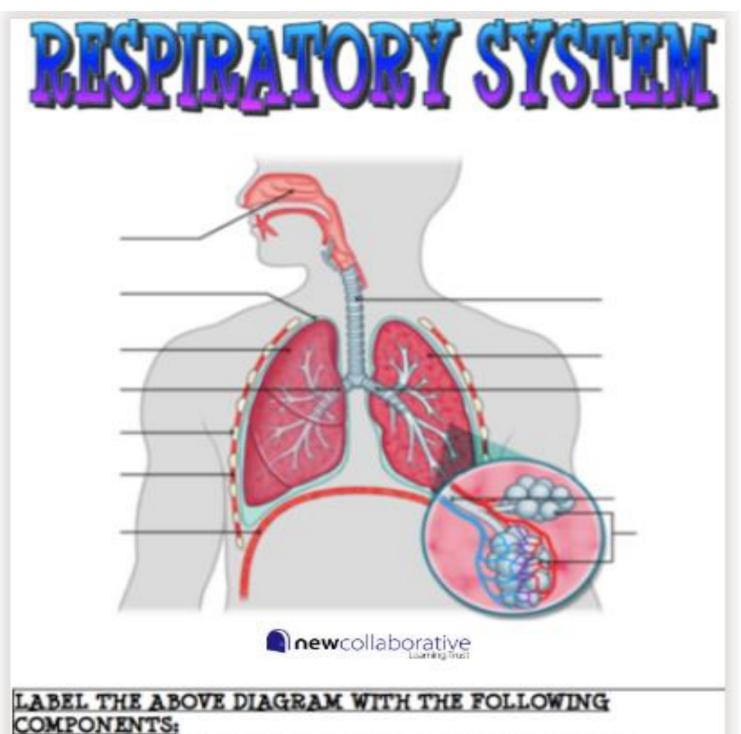
(Source: © Blamb/Shutterstock)



- А В
- В
- C

(Total for question = 3 marks)





nasal cavity; epiglottis; pharynx; larynx; trachea; bronchus;

bronchioles; lungs (lobes, pleural membrane, thoracic cavity,

visceral pleura, pleural fluid, alveoli); diaphragm; intercostal

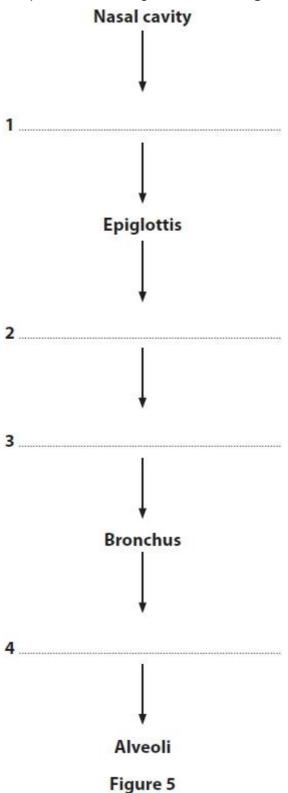
muscles (external and internal)



Q12.

Figure 5 is an incomplete flow diagram of the route that air passes through when travelling from the nasal cavity to the alveoli.

Identify the four structures needed to complete the flow diagram shown in Figure 5.





(Total for question = 4 marks)

Q13.

Name the structures, A–C, described in Table 1.

| Structure | Description | |
|-----------|--|--|
| A | A flap of cartilage at the base of the tongue, which prevents food from entering the windpipe. | |
| В | Large single tube strengthened by rings of cartilage. | |
| C | Tiny airways that carry oxygen to the alveoli. | |

Table 1

(Total for question = 3 marks)



Compulsory Task 2

Creating positive lifestyle habits

Think about members of your family or close friends (four in total) and how you might change one negative factor of their lifestyles. (Do not name them on the worksheet.) What would you change and what would you suggest as an alternative?

Remember to provide a justification for your suggested change (see example below):

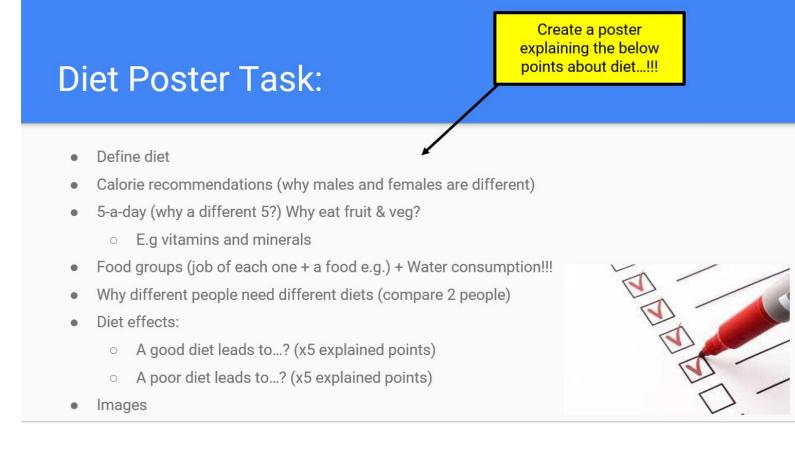
| ÷ | | | | |
|---|-------------|-----------------|---|--|
| | Subjec t | Negative factor | Positive alternative | Justification |
| | | Smoking | Stop smoking and start gentle exercise routine (walk dog twice a day) | Stopping smoking and starting exercise routine will reduce hypertension and risk of CHD |

| Subject | Negative factor | Positive alternative | Justification |
|---------|--------------------|----------------------|---------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |



What do the following terms mean to you...?

- **Exercise:** Physical activity requiring effort, carried out to sustain or improve health and fitness...
- Health: A complete state of social, physical & mental well-being with the absence of illness / injury.
- **Lifestyle:** The way in which a person lives, influenced by a number of factors...





Strongly Recommended Task:

Watch 6 and read 4 and complete the tasks as outlined below in the green box:

prime video

OCR A LEVEL PHYSICAL EDUCATION DEVELOP YOUR KNOWLEDGE OF SPORTING CONTEXT IN PREPARATION FOR YOUR 2 YEAR COURSE

YouTube

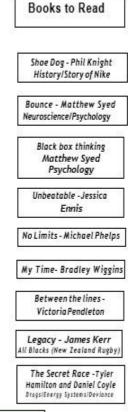


| The English Game (Sport and Society) | - |
|--|--------------|
| Unstoppable (Sport Psychology) | And Street |
| lcarus (Drugs/Performance) | ICARUS |
| Stop at Nothing (Doping in Sport) | TTOP AT |
| Coach Carter (Sport Psychology) | and h |
| The Game Changers (Diet andNutrition) | A |
| Supersize Me (Diet and Nutrition) | |
| Blindside (American Football) | + |
| Last Chance U (American Football) | KART |
| The Last Dance (Michael Jordan) | 444.49 |
| Losers (Adversity in Sport) | LOSERS |
| Moneyball | |
| Formula 1 Drive to Surv | rive Townshi |

| All or Nothing Manchester City | Subscribe to the Body Coach (Joe Wicks) (Types of Training/Nutrition) |
|---|--|
| All or Nothing New Zealand All Blacks | Kobe Bryant Black Mamba Doc |
| This is Football | Being Serena Series |
| 4 Minute Mile | "Is Professionalism Killing Sport" BBC Documentary |
| The Program (Lance Armstrong) | The Psychology of a Winner 2020 Documentary |
| Andy Murray - Resurfacing | Trent Alexander Arnold Living the Dream |
| Dan Carter - Perfect 1 | Tyson Fury Road to Redemption |
| The Unknown Runner | Crossing <u>The</u> Line Australian Cricket |
| The Race to Dope (Doping System in Sport | Jurgen Klopp Journey to Top |
| Muscle and Medals | Strive for Greatness Lebron James |

Keep up to date with all the latest news in the world of sport, there is always something happening that links to the course.....

Choose 2 from the lists above and write a report (minimum 1 xA4 for each) which; (AD1) Describes an overview of the Video/Book (AO2) Explains the relationship between the video/book and your OCR A level PE Specification (AO3) Analyses the video/book and discuss your opinion and conclusion Tick the boxes of the ones you are completing. Feel free to watch as many as you want if you have time





Compulsory task 3

Mark your answers and add the corrections in a different colour pen. Self assessment task:

Mark Scheme

Q1.

| Question Number | Answer | Mark | |
|--------------------|--|------|--|
| | Award one mark for labelling each bone correctly. • A – Clavicle (1) (DNA collarbone) • B – Sternum (1) (DNA breastbone) • C – Ribs/Rib Cage (1) | 3 | |
| | Accept phonetic spelling. *DNA = Do not accept | | |

Q2.

| Question Number | Answer | Mark | |
|--------------------|--|------|--|
| | Award one mark for correctly labelling each region. • B - Thoracic • E - Coccyx | 2 | |

Q3.

| Question Number | Answer | Mark |
|--------------------|---|------|
| | Award one mark for identifying each correct region of the vertebral column, up to a maximum of two marks. A - Cervical C - Lumbar | 2 |
| | Accept phonetic spelling. | |



Q4.

| Question Number | Answer | Mark |
|--------------------|---|------|
| | Award one mark for identifying each muscle, up to a maximum of two marks. | 2 |
| | A - Gluteals | |
| | B - Gastrocnemius | |
| | Accept phonetic spelling. | |

Q5.

| Question Number | Answer | Mark |
|--------------------|---|------|
| | Award one mark for labelling each muscle correctly. A – Gastrocnemius (1) (DNA Calf) B – Soleus (1) C – Tibialis anterior/Tibialis ant (1) | 3 |
| | Accept phonetic spelling. *DNA = Do not accept | |

Q6.

| Question Number | Answer | Mark |
|--------------------|--|------|
| | Award one mark for labelling each muscle correctly. A - Pectorals/Pectoralis/Pectoralis Major/Pectorialis Minor (1) (DNA Pecs) B - Trapezius (1) (DNA Traps) C - Latissimus dorsi (1) (DNA Lats) Accept phonetic spelling. *DNA = Do not accept | 3 |



Q7.

| Question Number | Answer | | | Mark |
|--------------------|--------------------------------------|--|--|-------|
| (a) & (b) | agonist muscl Award one ma | ark for each identif e, up to a total of t ark for each identif , up to a total of tv | t wo marks. fication of a type | 2 + 2 |
| | Joint movement | (a) Agonist | (b) Type of contraction | |
| | Knee extension (lead leg) | Quadriceps | Concentric | |
| | Knee flexion (trail leg) | Hamstrings | Concentric | |

Q8.

| Question Number | Answer | Mark |
|--------------------|--|------|
| | Award one mark for identification of a characteristic of cardiac muscle | 1 |
| | Cardiac muscle is involuntary (1) Accept any other appropriate answer. | |



Q9.

| Question Number | Answer | Mark |
|--------------------|--|------|
| | Award one mark for stating the function of the tricuspid valve for a maximum two marks. Control blood flow between the <u>right</u> atrium and <u>right</u> ventricle/controls blood flow on the <u>right</u>-hand side of the heart (1) and prevent backflow (1) | 2 |

Q10.

| Question Number | Answer | Mark |
|--------------------|---|------|
| | Award one mark for labelling each structure of the heart correctly. A – Aorta (1) B – Pulmonary artery/PA (1) C – Right ventricle/RV (1) D – Septum (1) | 4 |
| 7 | Accept phonetic spelling. | |

Q11.

| Question Number | Answer | Mark |
|--------------------|--|------|
| | Award one mark for naming each of the blood vessels correctly. | 3 |
| | Artery/Arteriole – A Capillary – B Venule/Vein – C | |
| | Accept specific examples (e.g. Pulmonary Artery/Pulmonary Vein) | |



Q12.

| Answer | Mark |
|--|---|
| Award one mark for labelling each respiratory structure correctly. • 1- Pharynx • 2- Larynx • 3- Trachea (DNA Windpipe) • 4- Bronchioles Accept phonetic spelling. | 4 |
| | Award one mark for labelling each respiratory structure correctly. • 1- Pharynx • 2- Larynx • 3- Trachea (DNA Windpipe) • 4- Bronchioles |

Q13.

| Question Number | Answer | Mark |
|--------------------|--|------|
| | Award one mark for naming each structure. • Epiglottis – A • Trachea – B • Bronchioles – C | 3 |

