

**YEAR: 10**

**SUBJECT: SCIENCE**

**TEST: Sport Science**

**TIME: 45 mins**

**QUESTIONS: Part A: Multiple Choice Questions (10 marks)**

**Part B: Short Answer Questions (28 marks)**

**Part C: Extended Answer Question (12 marks)**

**TOTAL MARKS: 50 marks**

**SECTION ONE: Multiple Choice Questions (1 mark each)**

**Answer this section on the separate multiple choice answer sheet**

1. Which of the following is **NOT** a skill related component of fitness?
2. Agility
3. Speed
4. Muscular endurance
5. Power
6. Which component of fitness is measured in the “Beep Test?”
7. Muscular endurance
8. Cardiovascular endurance
9. Strength
10. Power

3. What is the composition ratio of blood to plasma?

1. 45% blood, 55% plasma
2. 50% blood, 50% plasma
3. 55% blood, 45% plasma
4. 60% blood, 40% plasma
5. 4. The plyometric training method focuses on which component of fitness?
6. Muscular endurance
7. Agility
8. Strength
9. Power

5. What is the normal blood pressure for an adult?

1. 120 / 60
2. 140 / 80

c. 140 / 60

d. 120 / 80

1. 6. How many bones make up the adult skeleton?
3. 220
4. 206
5. 246
6. 270

7. Which of the following is **NOT** a type of bone?

1. Flat
2. Short
3. Wide
4. Long

8. The Olympics have banned the practice of “blood doping” in athletes, as it causes an unfair advantage. Blood doping increases which constituent of blood?

1. Red blood cells
2. White blood cells
3. Platelets
4. Plasma

9. The shoulder is an example of which type of joint?

1. Synovial
2. Fibrous
3. Gliding
4. Cartilaginous

10. Being extremely flexible in a joint is referred to as being “double jointed.” Which of the following is **NOT** a medical term for being double jointed?

1. Hyperextensible
2. Hypermobile
3. Hyperflexible
4. Hypertensile



**SEMESTER ONE 2016**

**Sport Science:**

**ANSWER BOOKLET**

**NAME:**

**FORM:** **DATE:**

Multiple Choice Short Answer Extended Answer Total

**/28**

**/12**

**/50**

**/10**

**SECTION ONE:** Multiple choice answers

Cross (X) through the correct answer.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | a | b | c | d |
| 2 | a | b | c | d |
| 3 | a | b | c | d |
| 4 | a | b | c | d |
| 5 | a | b | c | d |
| 6 | a | b | c | d |
| 7 | a | b | c | d |
| 8 | a | b | c | d |
| 9 | a | b | c | d |
| 10 | a | b | c | d |

**SECTION TWO: Short Answer (28 marks)**

Answer the questions in the spaces provided.

**Question 11**

The SMART acronym is effective in goal setting, and each letter in SMART represents a goal setting principle. List the five principles: (5 marks)

S: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

M: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

R: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

T: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Question 12**

There are three types of blood vessels. List all three and describe their purpose in the cardiovascular system. (6 marks)

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**Question 13**

The skeletal system has five important functions. List each function below. (5 marks) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Question 14**

List three health related components of fitness, and list three skill related components of fitness. (6 marks)

Health related components:

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Skill related components:

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**Question 15**

Define the following terms: (2 marks)

Stroke volume:

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Cardiac output:

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**Question 16:**

The body has various types of joints. List two different types of joints, and provide an example of each. (4 marks)

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**SECTION THREE: Extended Answer (12 marks)**

Answer the question in the spaces provided.

**Question 17: (12 marks)**

A friend of yours has found out about your sports science knowledge, and wants you to help them improve in their favourite sport, basketball! Being the great friend that you are, you have offered to help you friend improve on **ONE** health related component of fitness, and **ONE** skill related component of fitness. The fitness tests are of your choice, but must be relevant to BASKETBALL.

In order to measure and improve on these components, you must:

* Suggest a fitness test for each component you have chosen.
* Apply the SMART goal principle to **ONE** of your components.
* Design a training session for your friend, focusing on the component of fitness you applied the SMART principle to. You must implement a **training method**, and construct a training session that includes a warm up, an exercise period and a cool down. (be as detailed as possible)
* Finish with a justification, explaining how your choice of fitness components, fitness tests and training session are relevant to the sport of basketball.

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**END OF TEST**

Please go back and check your work / complete any unanswered questions.