| Surname     | Centre<br>Number | Candidate<br>Number |
|-------------|------------------|---------------------|
| Other Names |                  | 2                   |



### **GCE AS**

B550U10-1





# PHYSICAL EDUCATION – AS component 1 Exploring Physical Education

FRIDAY, 17 MAY 2019 - MORNING

1 hour 45 minutes

| For Ex   | aminer's us     | e only          |
|----------|-----------------|-----------------|
| Question | Maximum<br>Mark | Mark<br>Awarded |
| 1.a      | 1               |                 |
| 1.b      | 2               |                 |
| 1.c (i)  | 1               |                 |
| 1.c (ii) | 2               |                 |
| 1.d      | 4               |                 |
| 2.a      | 6               |                 |
| 2.b      | 4               |                 |
| 3.a      | 1               |                 |
| 3.b      | 4               |                 |
| 3.c      | 6               |                 |
| 4.a      | 6               |                 |
| 4.b      | 6               |                 |
| 5.a      | 1               |                 |
| 5.b      | 3               |                 |
| 5.c      | 10              |                 |
| 6        | 13              |                 |
| Total    | 70              |                 |

MK\*(S19-B550U10-1)

#### **INSTRUCTIONS TO CANDIDATES**

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer all questions.

Write your answers in the spaces provided in this booklet.

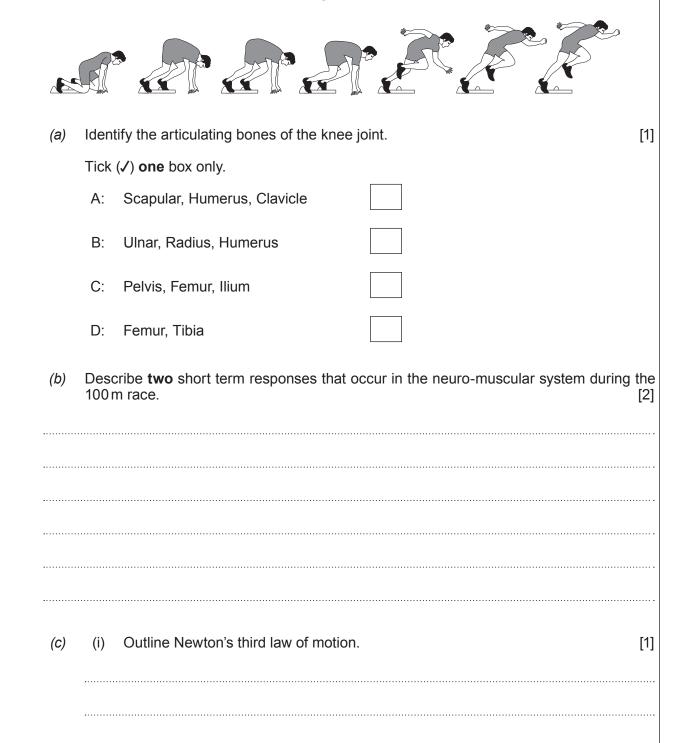
#### **INFORMATION FOR CANDIDATES**

The number of marks is given in brackets at the end of each question or part-question. You are reminded of the necessity for good English and orderly presentation in your answers. Diagrams, charts and graphs can be used to support answers when they are appropriate.

#### Answer all questions.

1. The image below shows a sprinter leaving the starting blocks in a 100 m race.

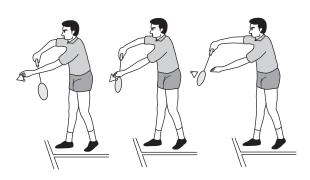
#### Figure 1



|     | (ii)         | Explain w<br>blocks and      | hy Newtor<br>d during the | n's third la<br>e race. | aw aids t   | he perfo   | rmance ( | of the spr  | inter leav | ving the<br>[2]                         |
|-----|--------------|------------------------------|---------------------------|-------------------------|-------------|------------|----------|-------------|------------|---|
|     |              |                              |                           |                         |             |            |          |             |            |   |
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|     |              |                              |                           |                         |             |            |          |             |            |   |
|     | •••••        |                              |                           |                         |             |            |          |             |            |   |
| (d) | Expl<br>a sp | ain how the<br>rinter's perf | physiologi<br>ormance.    | ical adapt              | tations fro | om long te | erm anae | erobic trai | ning coul  | ld affect<br>[4]                        |
|     |              |                              |                           |                         |             |            |          |             |            |   |
|     |              |                              |                           |                         |             |            |          |             |            |   |
|     |              |                              |                           |                         |             |            |          |             |            |   |
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| (a) | Discuss the strategies a coach would use for a learner in the cognitive stage compare to a learner in the autonomous stage of learning. |
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| (b) | Explain, using examples, how the different types of reinforcement used by a coach ca impact upon performance. [4                        |
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Figure 2



| (a)  | Iden  | tify the type of joint loca       | ted in the wrist.           |                  | [1] |
|------|-------|-----------------------------------|-----------------------------|------------------|-----|
|      | Tick  | ( <b>/</b> ) <b>one</b> box only. |                             |                  |     |
|      | A:    | Ball and socket                   |                             |                  |     |
|      | B:    | Hinge                             |                             |                  |     |
|      | C:    | Pivot                             |                             |                  |     |
|      | D:    | Ellipsoid                         |                             |                  |     |
| (b)  | Usin  | ng <b>Figure 2</b> , classify the | badminton serve on each cor | ntinuum below.   | [4] |
| Disc | crete |                                   |                             | Continuous       |     |
|      | Just  | ify your answer                   |                             |                  |     |
| Self | -pace | ed                                |                             | Externally paced |     |
|      | Just  | ify your answer                   |                             |                  |     |
|      |       |                                   |                             |                  |     |

Turn over. (B550U10-1) © WJEC CBAC Ltd.

| (c) | Evaluate how the use of interval training can develop the match fitness of a badmintor player.  [6] |
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| (a)   | Analyse how nutrition can be manipulated before, during and after exercise to enhar performance. | nce<br>[6] |
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B550U101 07 (b) Using the information in **Figure 3**, explain the varied use of the energy systems during a 1500 m race. [6]

### Figure 3

|         | Energy system      | Percentage |              |
|---------|--------------------|------------|--------------|
|         | ATP-PC System      | 10 %       |              |
|         | Lactic Acid System | 30%        |              |
|         | Aerobic System     | 60%        |              |
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| For s | uccess in sport, performers are required to be both physically and mentally fit.    |     |
|-------|---|-----|
| (a)   | Identify a method used to assess the psychological well-being of a performer.       | [1] |
| (b)   | Outline <b>three</b> of the somatic techniques that can be used to control anxiety. | [3] |
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