

STUDENT
NAME

CENTRE
NUMBER

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CANDIDATE
NUMBER

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SCIENCE

Total time: 35 minutes

October 2023

Candidates answer on the Question Paper.
No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

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

Write in dark blue or black pen.

Do not use staples, paper clips, glue or correction fluid.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

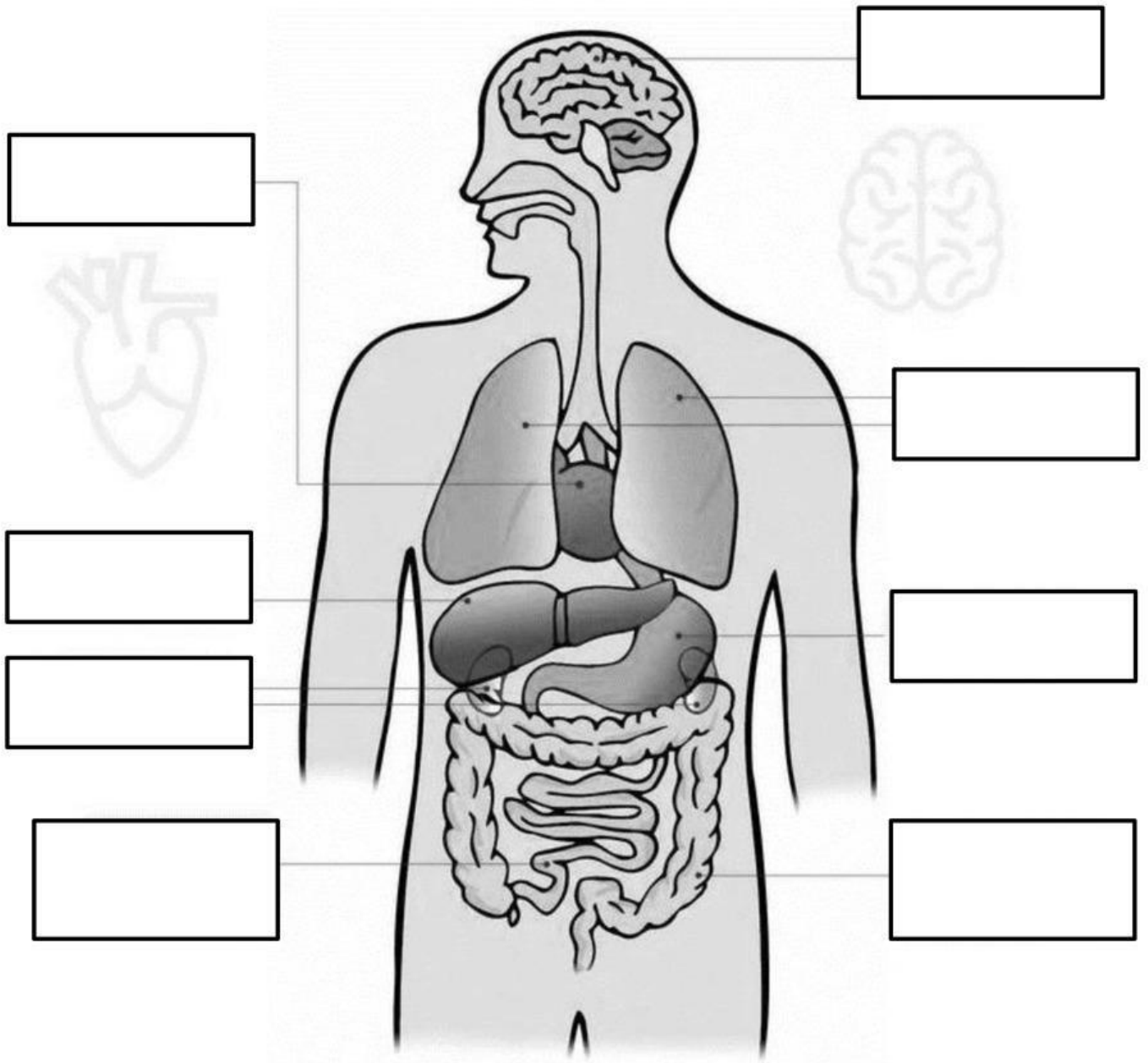
You should pay attention to punctuation, spelling and handwriting.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

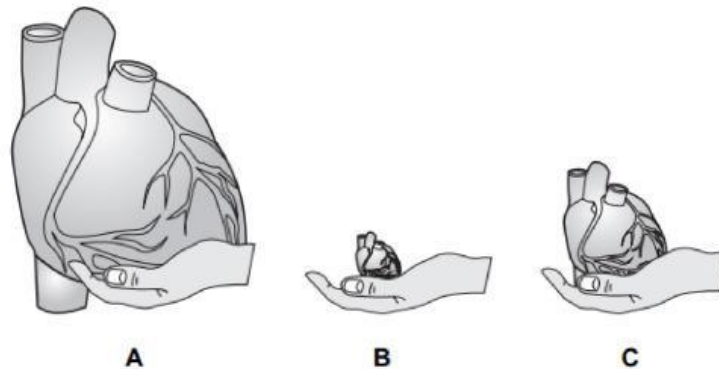
For Teacher's Use	
Page	Mark
1	
2	
3	
4	
5	
Total	

1 Label the organs on the diagram of the Human Body



[Total marks: 8 points]

2 The picture shows different sized hearts.



(a) Which of these hearts beats the slowest based on their sizes?
Write the correct letter, A, B or C.

..... [1]

(b) Which of these hearts beats the fastest based on their sizes?
Write the correct letter, A, B or C.

..... [1]

(c) Name another factor that affects pulse rate.

..... [1]

[Total marks: 3 points]

3 If the kidneys get damaged, one thing a person can do is undergo dialysis.

Briefly explain what this is.

.....
.....
..... [1]

[Total marks: 1 point]

- 4 **Peter and Ana investigate how pulse rate changes with exercise. They decided to use the following method.**

Measure and record Anya's pulse rate at rest.

Exercise for $\frac{1}{2}$ minute.

Measure and record her pulse rate.

Wait for her pulse rate to go back to normal.

Do the same exercise for 1 minute, measure and record her pulse rate.

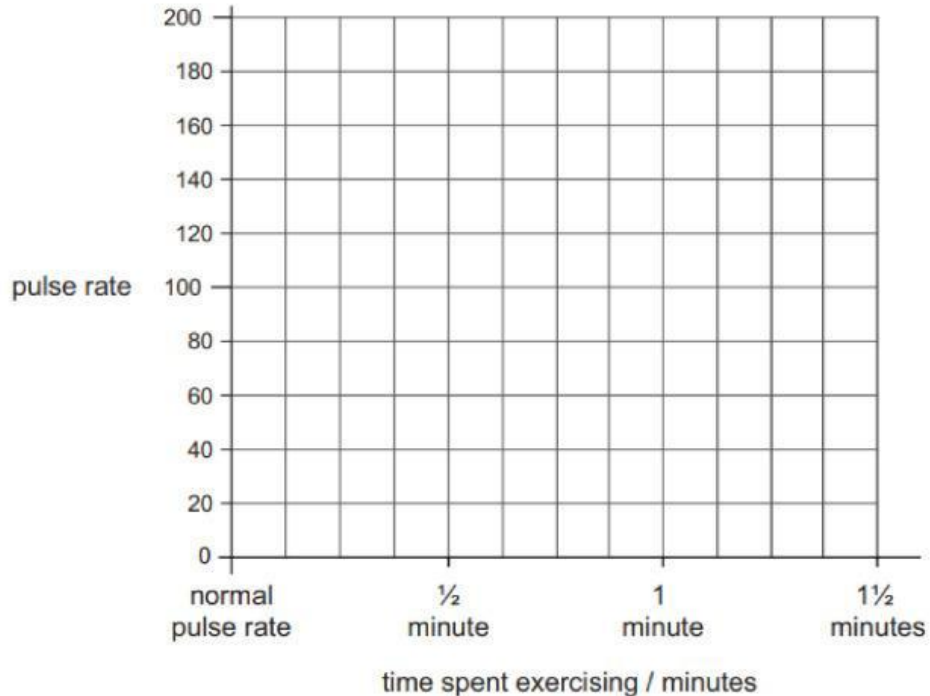
Wait for pulse rate to go back to normal.

Do the same exercise for $1\frac{1}{2}$ minutes, measure and record her pulse rate.

Here are Peta and Anya's results.

time spent exercising in minutes	pulse rate
0	70
$\frac{1}{2}$	110
1	140
$1\frac{1}{2}$	160

- a. **Plot the results on the graph.**



[1]

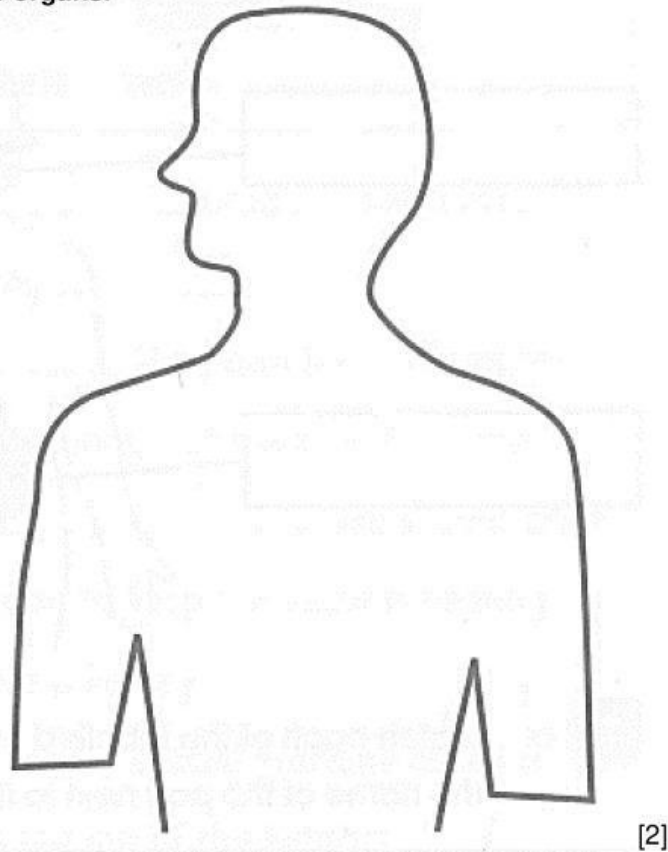
b. Why do they wait for Ana's pulse rate to go back to normal before she does more exercise?

.....
.....[1]

[Total marks: 2 points]

- 4 The respiratory system is made up of four (4) organs: the lungs, the nose, the windpipe and the diaphragm muscle.

(a) Draw and label the organs.



[2]

(b) Describe what happens to these organs when we breathe out.

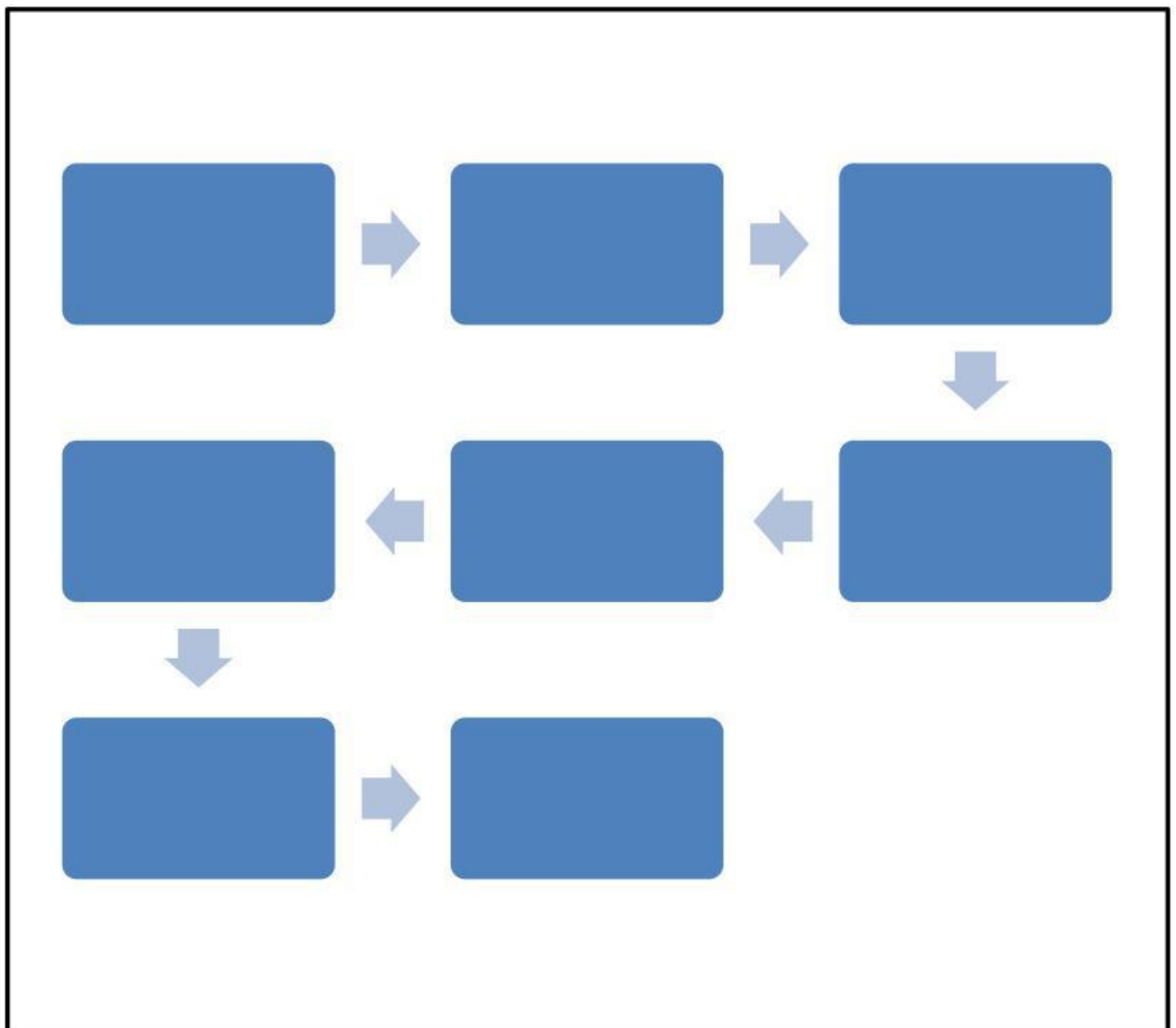
.....
.....
.....[1]

[Total marks: 3 points]

- 5 Food needs to be digested by the body into nutrients.

Make a diagram to show how food is digested in the body using the following words:

stomach	esophagus	rectum	food
mouth	large intestine	feces	small intestine



7 The brain is made up of three parts – the cerebrum, cerebellum and brainstem.

Read the descriptions below and decide which part of the brain is responsible for each.

- Balance
- Posture
- Coordination

.....[1]

- Sneezing
- Digesting
- Shivering

.....[1]

- Seeing
- Tasting
- Smelling

.....[1]

- Remembering your way home
- Dreaming
- Memorizing new words

.....[1]

- Moving your feet
- Turning your head
- Bending your fingers

.....[1]

[Total marks: 5 points]

end