

Candidate forename		Candidate surname	
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Centre number						Candidate number				
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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
ADVANCED GCE**

F921

HEALTH AND SOCIAL CARE

Anatomy and Physiology in Practice

WEDNESDAY 15 JUNE 2011: Afternoon

DURATION: 1 hour 30 minutes

SUITABLE FOR VISUALLY IMPAIRED CANDIDATES

Candidates answer on the question paper.

OCR SUPPLIED MATERIALS:

None

OTHER MATERIALS REQUIRED:

None

READ INSTRUCTIONS OVERLEAF

NSTRUCTIONS TO CANDIDATES

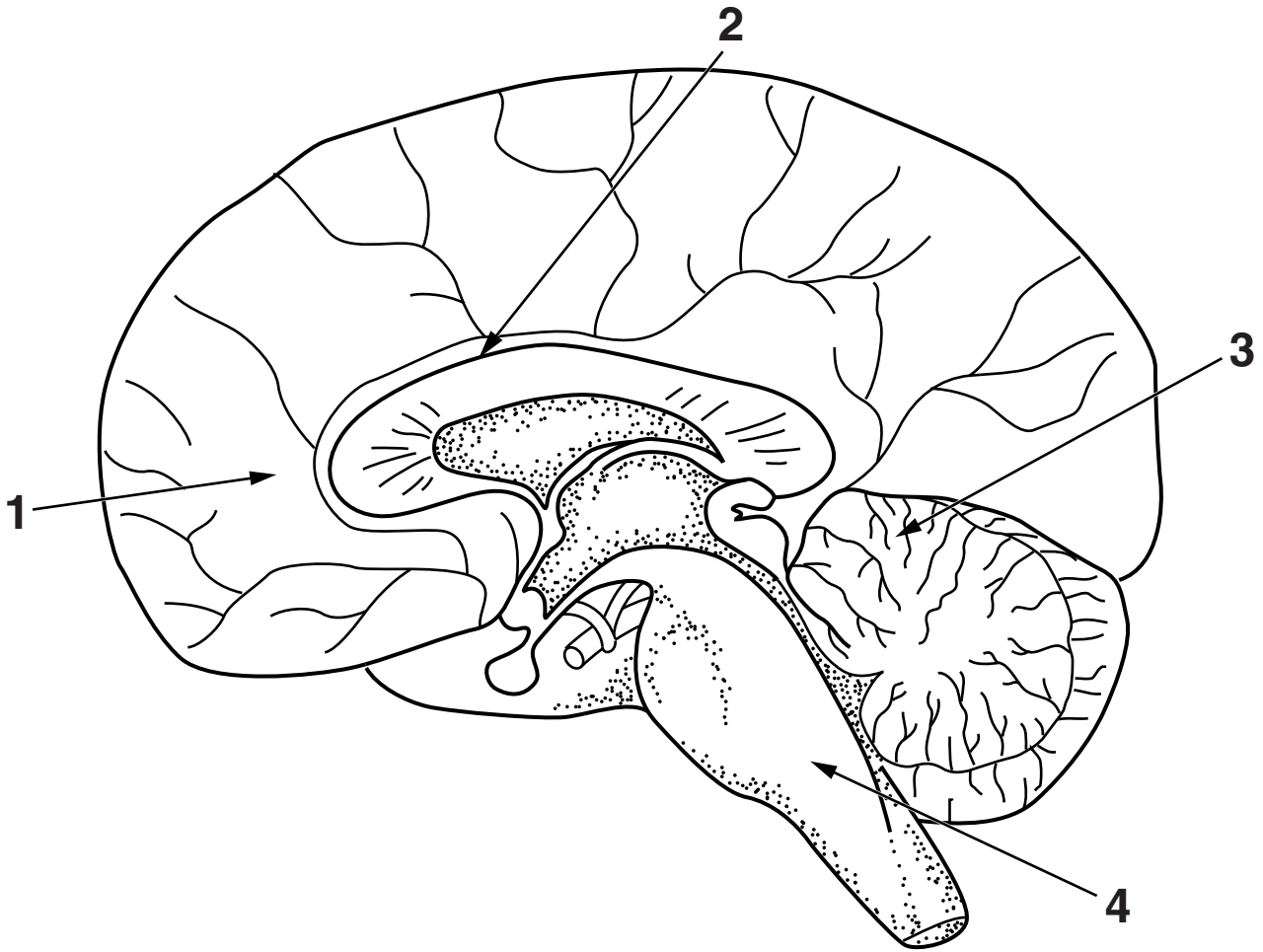
- **Write your name, centre number and candidate number in the boxes on the first page. Please write clearly and in capital letters.**
- **Use black ink. Pencil may be used for graphs and diagrams only.**
- **Read each question carefully. Make sure you know what you have to do before starting your answer.**
- **Write your answer to each question in the space provided. If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.**
- **Answer ALL the questions.**

INFORMATION FOR CANDIDATES

- **The number of marks is given in brackets [] at the end of each question or part question.**
- **The total number of marks for this paper is 100.**
- **You will be awarded marks for the quality of written communication where an answer requires a piece of extended writing.**

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1



SECTION OF BRAIN

(a) Name each of the structures labelled 1–4.

1 _____

2 _____

3 _____

4 _____ [4]

(b) Describe ONE function of each part of the neural system given below.

cerebellum _____

medulla _____

corpus callosum _____

cerebral hemisphere _____

[4]

- (c) (i) Describe how the body could be affected by a dysfunction of the musculo-skeletal and neural systems.**

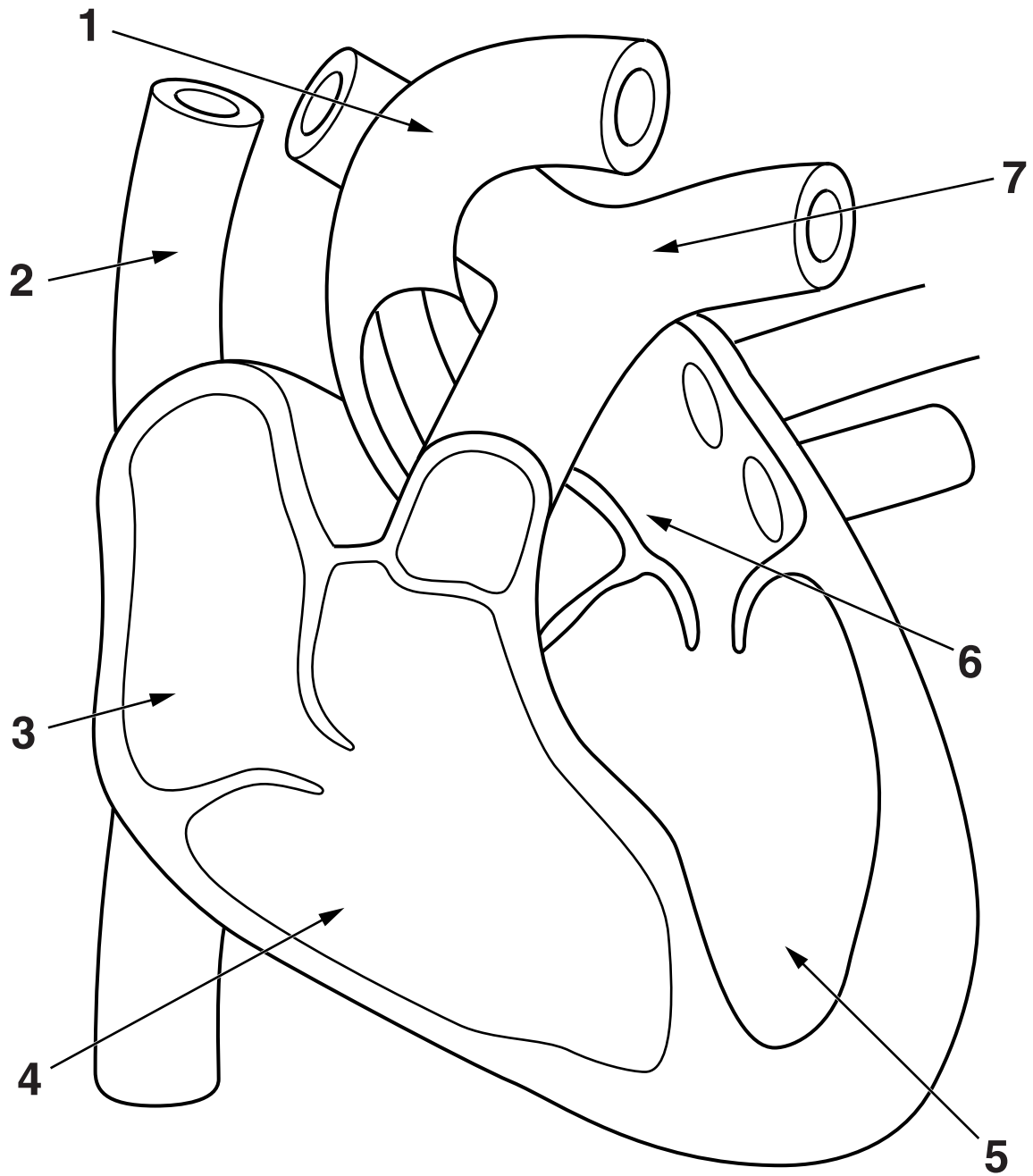
[6]

- (ii) **Describe TWO diagnostic techniques that could be used to detect a dysfunction of the musculo-skeletal and neural systems.**

[6]

[Total: 20]

2



SECTION THROUGH THE HEART

(a) Name each of the structures labelled 1–7.

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____ **[7]**

(b) Describe the function of different types of blood cells.

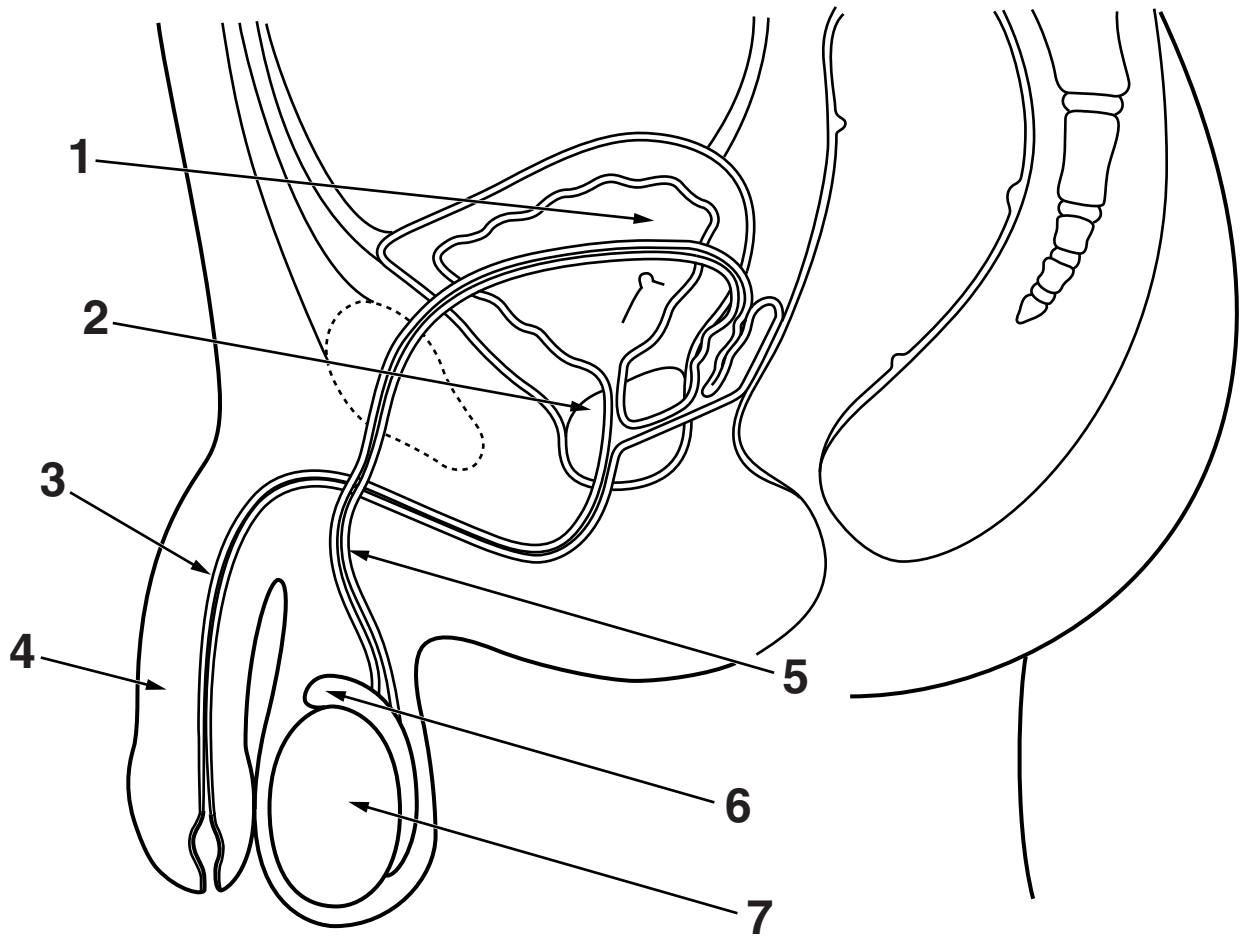
[9]

(c) State FOUR differences between a vein and an artery.

[4]

[Total: 20]

3



SIDE VIEW OF MALE REPRODUCTIVE SYSTEM

(a) Name each of the structures labelled 1–7.

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

[7]

(b) Explain why the testes are outside the body cavity.

[3]

(c) Describe the process of in vitro fertilisation (IVF).

[10]

[Total: 20]

- 4 (a) Describe the structure and function of the following parts of the respiratory system.

Trachea _____

Ciliated Lining _____

Diaphragm _____

[6]

(b) Explain the process of oxygen and carbon dioxide exchange in the lungs.

[6]

5 Discuss the possible causes of infertility in both women and men.

[20]

[Total: 20]

Please use these pages if additional space for answers is required.



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