

<b>Candidate forename</b>						<b>Candidate surname</b>				
<b>Centre number</b>						<b>Candidate number</b>				

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS  
ADVANCED GCE  
F921**

**HEALTH AND SOCIAL CARE**

**Anatomy and Physiology in Practice**

**MONDAY 31 JANUARY 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**

## **INSTRUCTIONS 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.

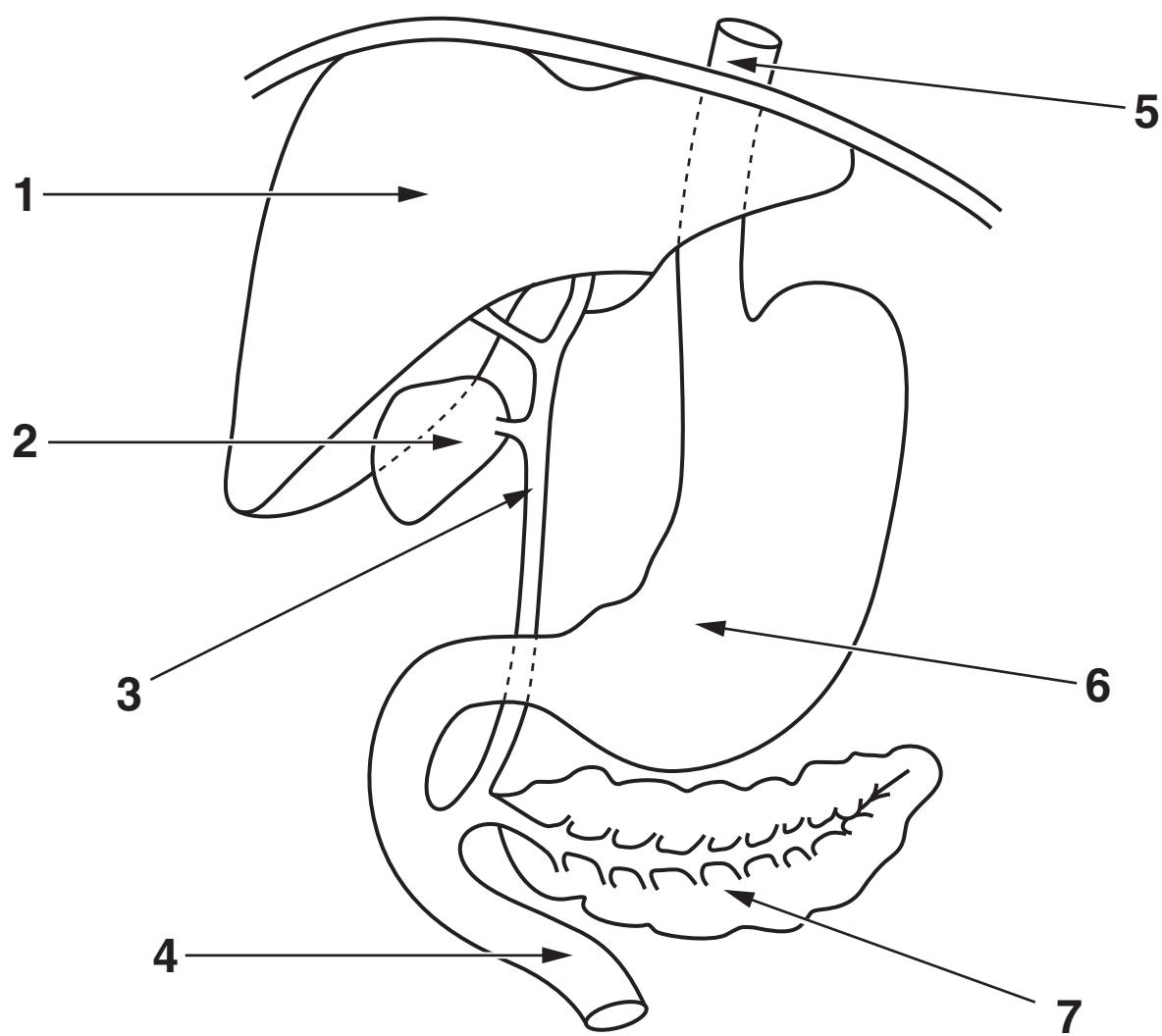
## **INFORMATION FOR CANDIDATES**

- 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

# DIGESTIVE SYSTEM



4

**(a) Name each of the structures labelled 1–7 opposite. [7]**

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_

5 \_\_\_\_\_

6 \_\_\_\_\_

7 \_\_\_\_\_

**(b) Describe the functions of each part of the digestive system given below. [8]**

**Stomach** \_\_\_\_\_

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**Pancreas** \_\_\_\_\_

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**Small intestine** \_\_\_\_\_

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**Rectum** \_\_\_\_\_

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**(c) Describe the treatment of a named dysfunction of the digestive system that you have studied. [5]**

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**[Total: 20]**

- 2 (a) Describe the flow of blood through the heart and valves starting at the vena cava and finishing at the aorta. [9]**

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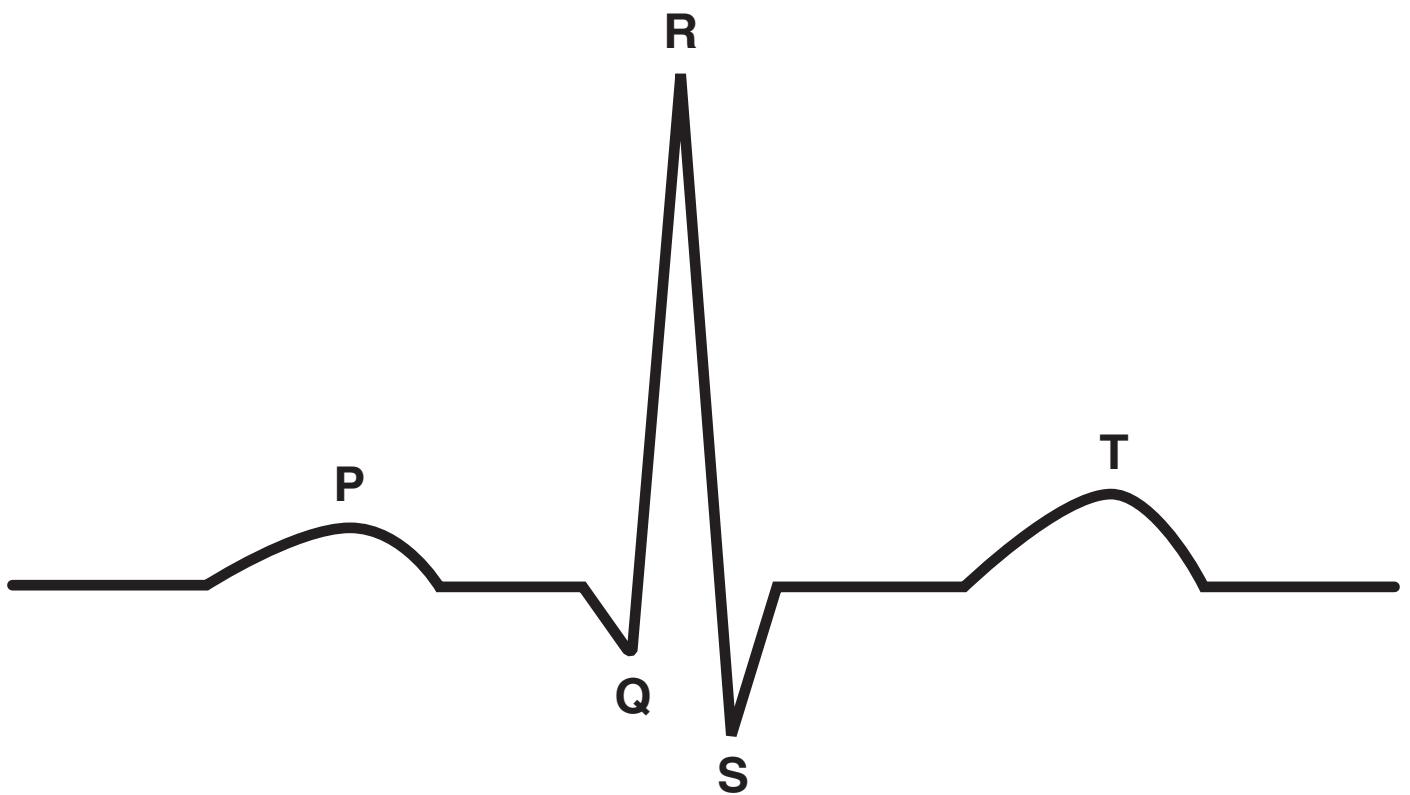
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(b)

## NORMAL ECG TRACE



Identify the activity within the heart at each of the points.

[3]

POINT	ACTIVITY
P	
Q R S	
T	

**(c) Describe how cardiac dysfunction could be diagnosed. [8]**

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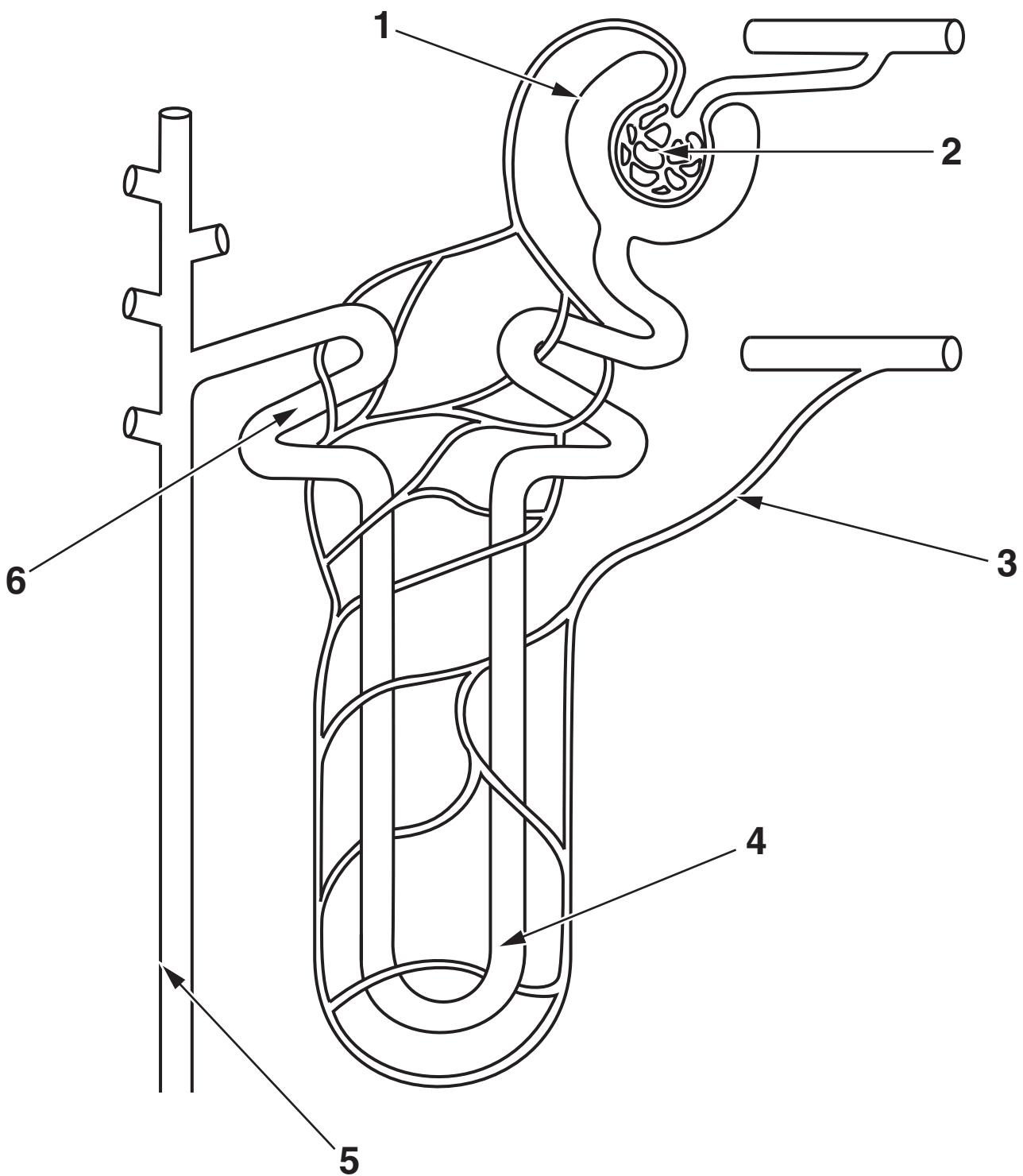
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**[Total: 20]**

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**KIDNEY TUBULE**

**(a) Name each of the structures labelled 1–6 opposite.**  
**[6]**

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_

5 \_\_\_\_\_

6 \_\_\_\_\_

**(b) (i) The renal system can be affected by different dysfunctions.**

**Describe how a renal dysfunction that you have studied could be diagnosed. [7]**

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**(b) (ii) Explain the physiological effects of this renal dysfunction. [7]**

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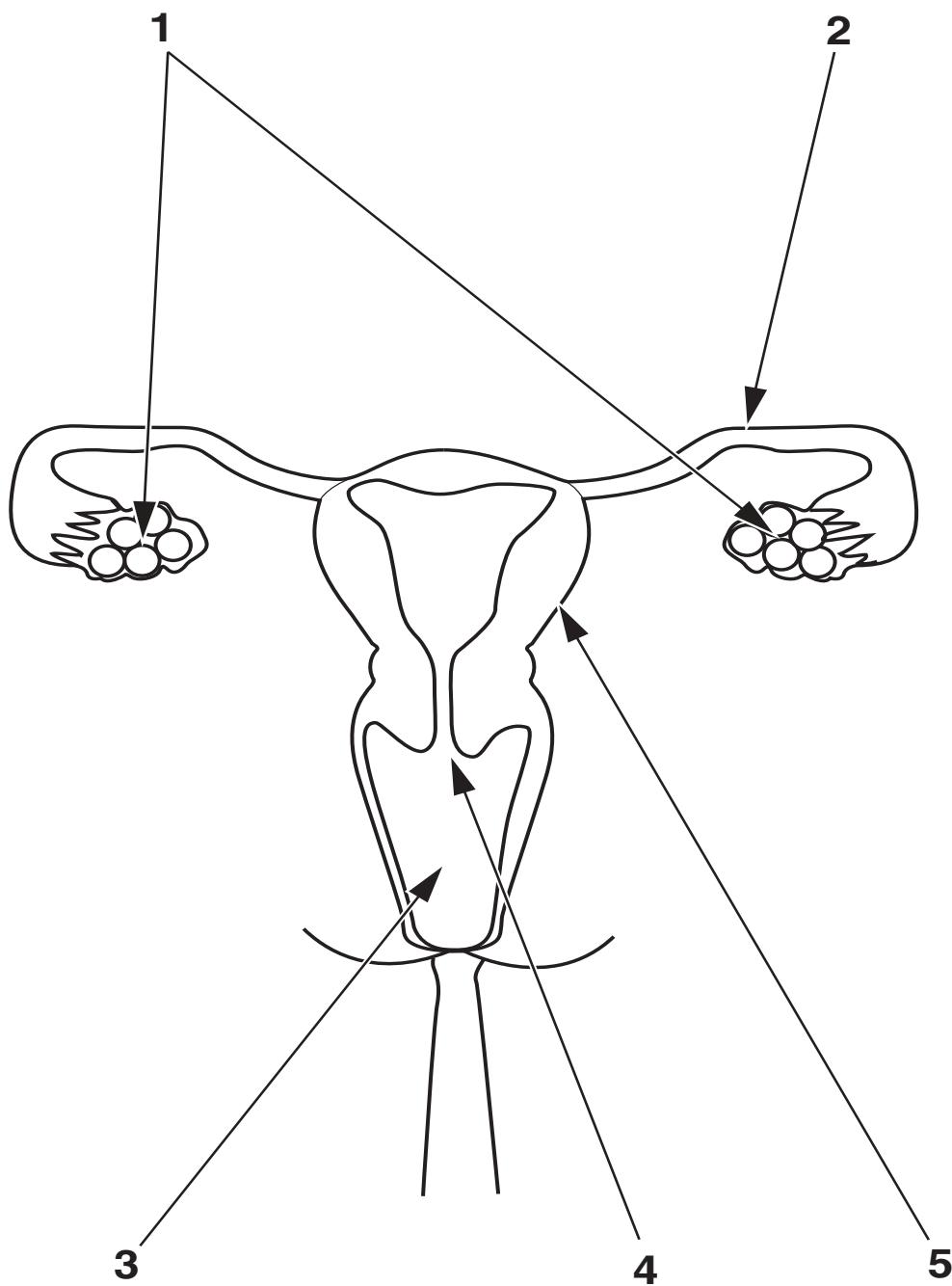
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**[Total: 20]**

**FEMALE REPRODUCTIVE SYSTEM**

**(a) Name each of the structures labelled 1–5 opposite.**  
**[5]**

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_

5 \_\_\_\_\_

**(b) Describe causes of infertility in females. [7]**

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**(c) Describe how female infertility could be diagnosed and treated. [8]**

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**[Total: 20]**

- 5 Smoking has been proven to damage healthy lung tissue and other body systems.**

**Discuss the physiological effects that smoking can have on the respiratory system and other body systems. [20]**

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**[Total: 20]**

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

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