OCR
Oxford Cambridge and RSA

Tuesday 21 June 2016 – Morning

A2 GCE HEALTH AND SOCIAL CARE

F921/01 Anatomy and Physiology in Practice

Candidates answer on the Question Paper.

OCR supplied materials:
None

Other materials required:
None

Duration: 1 hour 30 minutes

Candidate forename		Candidate surname	

Centre number						Candidate number				

INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB 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 page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Answer **all** the questions.
- Do **not** write in the bar codes.

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**.
- The quality of written communication will be taken into account in marking your answer to questions marked with an asterisk (*****).
- This document consists of **16** pages. Any blank pages are indicated.

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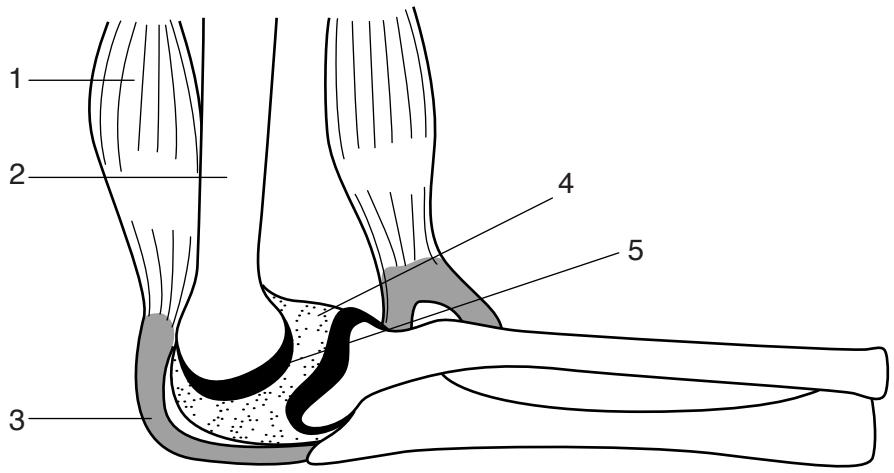

Fig. 1 Diagram of elbow joint

(a) Identify the parts indicated in the diagram of a human elbow.

1 .....

2 .....

3 .....

4 .....

5 .....

[5]

(b) **(i)** Name a dysfunction of either the musculo-skeletal or neural systems.

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

(ii) Identify a structure from Fig. 1 that would be primarily affected by the **named** dysfunction.

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

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(c)* Explain how a **named** dysfunction of either the musculo-skeletal or neural systems could be diagnosed.

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..... **[6]**

(d)* Assess the impact that a **named** dysfunction of either the musculo-skeletal or neural systems could have on the **daily activities** of an individual.

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..... **[7]**

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2 **(a)** Identify **three** functions of the blood.

1 .....

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2 .....

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3 .....

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[3]

(b) Explain **two** ways blood capillaries are adapted to perform their functions.

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..... **[4]**

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A number of factors can contribute to the development of a cardio-vascular dysfunction.

(c) (i) Identify **one** of these factors that is entirely beyond the control of an individual.

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

(ii)* Describe the possible effects of poor lifestyle choices on the development of cardio-vascular dysfunction.

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(d)* Explain how a **named** cardio-vascular dysfunction may be treated.

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..... **[6]**

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3 **(a)** Describe a function for each of the following:

1 oestrogen .....

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2 graafian mature follicle .....

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3 ciliated oviduct .....

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4 corpus luteum .....

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[4]

(b) Describe the location and process of fertilisation.

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..... **[4]**

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(c) Describe **four** functions of the uterus in the development and birth of a baby.

1 .....

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2 .....

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3 .....

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4 .....

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[4]

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(d)* Evaluate the use of in vitro fertilisation (IVF) as a treatment for female infertility.

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..... **[8]**

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4 **(a)** Explain one function for each of the following components of a kidney tubule or nephron.

glomerulus .....

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Bowman's capsule .....

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proximal tubule .....

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loop of Henle.....

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collecting duct .....

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[10]

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(b)* Explain a possible cause of a **named** renal dysfunction and how this condition may be treated.

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..... **[10]**

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5* Evaluate the effect of alcohol on an individual's health and well-being. **[20]**

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END OF QUESTION PAPER

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ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

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