higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

N1100**(E)**(N14)H

NATIONAL CERTIFICATE

MEDICAL PRACTICE N4

(First Paper)

(9090154)

14 November 2018 (X-Paper)
09:00–12:00

This question paper consists of 5 pages.

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DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE
MEDICAL PRACTICE N4
(First Paper)
TIME: 3 HOURS
MARKS: 100

NOTE: If you answer more than the required number of questions, only the required number of questions will be marked. All work you do not want to be marked must be clearly crossed out.

INSTRUCTIONS AND INFORMATION

1. SECTION A is COMPULSORY.
2. Answer any THREE of the FOUR questions in SECTION B.
3. Read ALL the questions carefully.
4. Number the answers according to the numbering system used in this question paper.
5. Write neatly and legibly.

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SECTION A

QUESTION 1

1.1 Indicate whether the following statements are TRUE or FALSE. Choose the answer and write only 'True' or 'False' next to the question number (1.1.1–1.10) in the ANSWER BOOK.

1.1.1 Efferent impulses originate in the brain and are then carried via nerves to the receptor organs.

1.1.2 The cerebrum can be divided into the frontal brain, midbrain and the pons.

1.1.3 The frontal part of the cerebrum is home to the speech centrum.

1.1.4 The Eustachius-canal connects the sinuses with the throat.

1.1.5 The sclera protects the eye and helps the eye to keep its shape.

1.1.6 A blood clot in the leg can lead to a coronary thrombosis.

1.1.7 The sounds of the heart are caused by the contracting of the atriums and the ventricles.

1.1.8 Normal blood pressure is constant at all ages 120/80.

1.1.9 Blood plasma is serum without the clotting agents.

1.1.10 The O- blood group is the universal receivers of blood.

(10 × 2) (20)

1.2 Explain the following terms:

1.2.1 Internal

1.2.2 Superior

1.2.3 Supination

1.2.4 Abduction

1.2.5 Foramen

1.2.6 Thoracic cavity

1.2.7 Proximal

(7 × 2) (14)

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1.3 Give the correct medical term for the following:

1.3.1 The illness babies are born with due to the Rh-factor.

1.3.2 The artery in the neck that can be used as a pressure point.

1.3.3 The hormone that is also known as the 'growth hormone'?

1.3.4 Super secretion of hormones by a gland.

1.3.5 The hormone that stimulates growth of the milk gland and the synthesis of milk.

1.3.6 The nervous system that connects the central nervous system with the organs and muscles in the body.

(6 × 1) (6)
[40]

TOTAL SECTION A: 40

SECTION B

Answer only THREE questions from this section.

QUESTION 2

2.1 Briefly explain the breathing movements and the influence it has on the exchange of gasses. (10)

2.2 Discuss the circulation of blood through the heart. (10)
[20]

QUESTION 3

3.1 3.1.1 What do we call the procedure through which cerebrospinal fluid is obtained? (1)

3.1.2 Where is it obtained from? (1)

3.2 Briefly discuss the functioning of the half-circular canals in the ear. (5)

3.3 Name TWO factors that play a role in the amount of urine passed every day. (2)

3.4 Name any TWO abnormal substances that can be found in urine. (2)

3.5 Name the parts of the female reproductive system according to figure 1, numbered (1–5). (5 × 1) (5)

3.6 Name the hormones involved in the menstrual cycle. (4 × 1) (4)
[20]

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QUESTION 4

4.1 Discuss the vaginal diaphragm and spermicides as contraceptives. (10)

4.2 Explain the term 'coitus interruptus'. (2)

4.3 Discuss the dangers of, and complaints against, the use of the condom. (5)

4.4 Briefly explain how syphilis is transported from the mother to the fetus. (3)
[20]

QUESTION 5

5.1 Discuss AIDS under the following headings:

5.1.1 How it is transmitted from one person to another (4)

5.1.2 Later symptoms (4)

5.2 Discuss herpes as a sexually transmitted disease. (5)

5.3 Discuss the three steps in urine formation. (7)
[20]

TOTAL SECTION B: 60
GRAND TOTAL: 100

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