higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE

MEDICAL PRACTICE N4

(First paper)

(9090154)

10 November 2022 (X-paper)
09:00–11:00

This question paper consists of 7 pages.

072Q1B2210

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DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE
MEDICAL PRACTICE N4
(First paper)
TIME: 2 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. Answer ALL the questions in SECTION A.
2. Answer any THREE 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 Choose a term from COLUMN B that matches a description in COLUMN A. Write only the letter (A–K) next to the question number (1.1.1–1.1.10) in the ANSWER BOOK.

COLUMN A		COLUMN B	
1.1.1	A ridge on a bone	A	adduction
1.1.2	A rounded prominence at the end of a bone	B	foramen
1.1.3	Furthest from the origin	C	extension
1.1.4	A natural opening or passage	D	facet
1.1.5	An articulating surface	E	plantar
1.1.6	Front	F	distal
1.1.7	Movement towards the midline	G	crista
1.1.8	Movement away from the midline	H	posterior
1.1.9	Straightening	I	condyle
1.1.10	Relating to the sole of the foot	J	anterior
		K	abduction

(10 × 1) (10)

1.2 Choose the correct term from those given in brackets. Write only the answer next to the question number (1.2.1–1.2.5) in the ANSWER BOOK.

1.2.1 The (pulmonary/hepatic) artery carries blood from the right ventricle of the heart to the lungs.

1.2.2 The (thyroid/thoracic) aorta is a part of the aorta located in the thorax.

1.2.3 The (femoral/tibial) artery is found in the thigh.

1.2.4 The (brachial/bronchial) artery is a major blood vessel of the upper arm.

1.2.5 The (superior vena cava/carotid artery) descends through the superior mediastinum, behind the intercostal spaces, to the right of the aorta and trachea.

(5 × 2) (10)

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1.3 Indicate whether the following statements are TRUE or FALSE by writing only 'True' or 'False' next to the question number (1.3.1–1.3.10) in the ANSWER BOOK.

1.3.1 The average baby weighs 5 kg at birth.

1.3.2 Most children should be able to walk independently by 18 months.

1.3.3 Intrauterine devices need to be replaced monthly.

1.3.4 Syphilis can be cured.

1.3.5 Genital warts are cured with antibiotics.

1.3.6 HIV can be transmitted through breast milk.

1.3.7 Mitosis is a process in which a single cell divides into two identical daughter cells.

1.3.8 Epithelial tissue provides protection to underlying tissues.

1.3.9 The diaphragm contracts and flattens during inhalation.

1.3.10 Cholesterol is measured using a sphygmomanometer.

(10 × 2) (20)
[40]

TOTAL SECTION A: 40

SECTION B

Answer only THREE questions from this section.

QUESTION 2

2.1 Name TWO divisions of the autonomic nervous system. (2 × 1) (2)

2.2 Name SIX hormones secreted by the pituitary gland. (6 × 1) (6)

2.3 Complete the diagram in FIGURE 1 below to illustrate the circulation of blood through the heart by using the words in the list below.

Write only the missing word or words next to the question number (2.3.1–2.3.7) in the ANSWER BOOK.

lungs; rest of the body; right atrium; left ventricle; aorta; left atrium; right ventricle

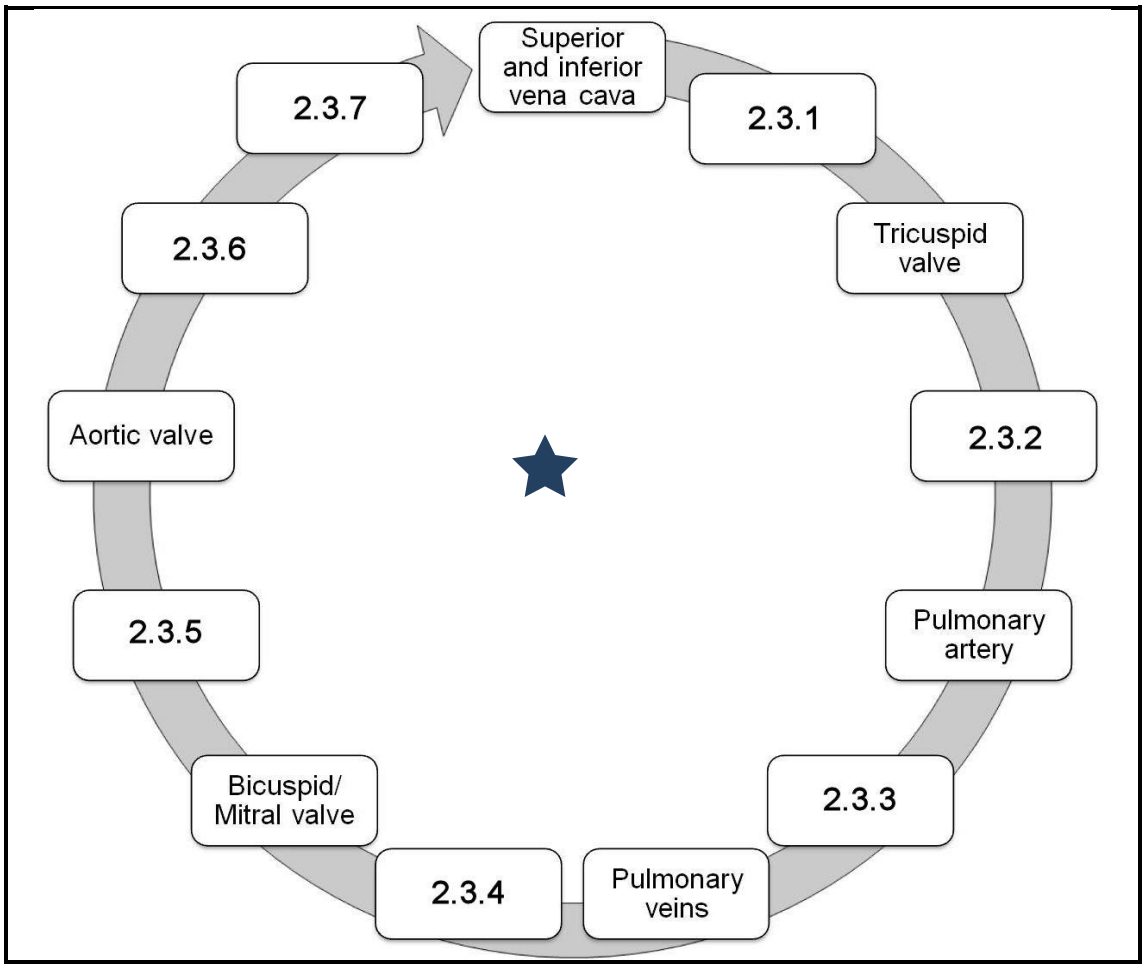


FIGURE 1

(7 × 1) (7)

2.4 What factors would disqualify an individual from donating blood? (5 × 1) (5)

[20]

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QUESTION 3

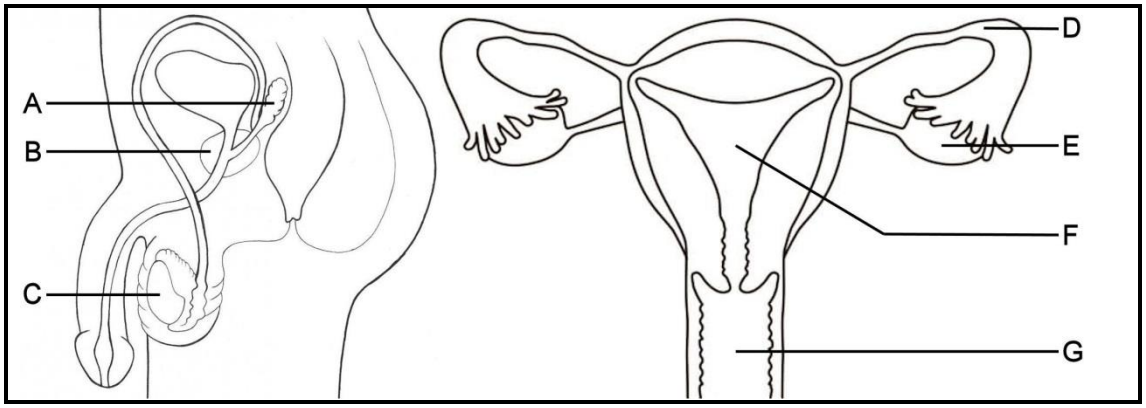
3.1	Name the FOUR lobes of the brain.	(4 × 1)	(4)
3.2	List FOUR hormones that regulate the menstrual cycle.	(4 × 1)	(4)
3.3	How would you wind a baby?	(7 × 1)	(7)
3.4	What factors increase the risk of contracting an STI?	(5 × 1)	(5)

[20]

QUESTION 4

4.1	Name the THREE main components of a human cell.	(3 × 1)	(3)
4.2	List FIVE components of a balanced diet.	(5 × 1)	(5)

4.3 Study the diagrams of the two human body systems shown in FIGURE 2 below and give the correct name for each part (A–G). Write only the name next to the letter (A–G) in the ANSWER BOOK.



[Adapted from: *http://innerorgan.com/ and https://img.buzzfeed.com/store-an-image-prod-us-east-1/SkNjM8jxz.png?output-format=jpg?output-format=jpg&downsize=600:*&output-quality=auto*]

FIGURE 2

(7 × 1) (7)

4.4 Recommend questions a patient should ask before choosing a method of contraception. (5 × 1) (5)

[20]

QUESTION 5

5.1	Name THREE functions of cerebrospinal fluid.	(3 × 1)	(3)
5.2	List FIVE abnormal constituents that may be found in urine.	(5 × 1)	(5)
5.3	What should you do to assist a patient suffering from shock?	(7 × 1)	(7)
5.4	Why should women avoid douching?	(5 × 1)	(5)
			[20]

TOTAL SECTION B: 60
GRAND TOTAL: 100

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