higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE (VOCATIONAL)

THE HUMAN BODY AND MIND
NQF LEVEL 2

(9020072)

11 December 2020 (X-paper)
09:00–11:00

This question paper consists of 7 pages.

581Q1N2011

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TIME: 2 HOURS
MARKS: 150

INSTRUCTIONS AND INFORMATION

1. Answer all the questions.
2. Read all the questions carefully.
3. Number the answers according to the numbering system used in this question paper.
4. Start each section on a new page.
5. Use only a black or blue pen.
6. Write neatly and legibly.

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QUESTION 1

1.1 Various options are given as possible answers to the following questions. Choose the correct answer and write only the letter (A–D) next to the question number (1.1.1–1.1.5) in the ANSWER BOOK.

1.1.1 Which type of tissue below serves as a lining in the different parts of the body?

A Connective tissue
B Epithelial tissue
C Muscle tissue
D Nervous tissue

1.1.2 How many bones are there in the skeleton?

A 100
B 206
C 106
D 200

1.1.3 What is a voluntary muscle?

A Muscle that works independently and cannot be controlled.
B Muscle that can be controlled.
C Forms part of the elastic tissues.
D Connects the muscles to bone.

1.1.4 Which system below acts as the body's frame?

A Skeletal system
B Nervous system
C Urinary system
D Reproductive system

1.1.5 Which gland produces bile?

A Pancreas
B Salivary
C Liver
D Gallbladder

(5 × 1) (5)

1.2 Indicate which organs/body parts form part of the body regions indicated below:

1.2.1 Upper limbs (4)

1.2.2 Lower limbs (3)

1.3 Identify the FOUR common types of bones and give ONE example of each.

(4 × 2) (8)

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1.4 Draw a mind map to summarise the functions of the muscular system. You may also include the functions of the different types of muscles. (8)

1.5 Give TWO types of joints. (2)
[30]

QUESTION 2

2.1 Choose ONE term from the list below for each of the following descriptions and write it next to the question number (2.1.1 – 2.1.7)

cornea; optic nerve; retina; near-sighted; iris; pupil; far-sighted; lens; sclera; rods.

2.1.1 Helps protects eye from damage.

2.1.2 The layer of light-sensitive cells lining the inside of the eyes that detect images focused on the back of the eye.

2.1.3 The white part of the eye.

2.1.4 Nerves that transmit information from the retina to the brain.

2.1.5 Only able to see things close by.

2.1.6 The black spot in the middle of the eye.

2.1.7 Muscle that controls the amount of light entering the eye.

(7 × 1) (7)

2.2 Redraw and complete the table below in your ANSWER BOOK.

Sense	**Sense organ**
Sight	2.2.1
Smell	2.2.2
Taste	2.2.3
Touch	2.2.4
Hearing	2.2.5

(5 × 1) (5)

2.3 Discuss the function of the nose during smelling. (5)

2.4 Identify where on the tongue each taste bud can be found. (2 × 4) (8)

2.5 List FIVE things that the skin can sense. (5)
[30]

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QUESTION 3

3.1 Choose the correct anatomical name of the area of the body from COLUMN B that matches the specific body part in COLUMN A. Write only the letter (A–L) next to the question number (3.1.1–3.1.10) in the ANSWER BOOK.

COLUMN A		COLUMN B	
3.1.1	Genitals	A	cranial area
3.1.2	Ankle	B	cervical area
3.1.3	Skull	C	pubic area
3.1.4	Knee	D	patellar area
3.1.5	Nose	E	tarsal area
3.1.6	Chest	F	nasal area
3.1.7	Mouth	G	thoracic area
3.1.8	Eyes	H	umbilical area
3.1.9	Neck	I	axillary area
3.1.10	Armpit	J	femoral area
		K	orbital area
		L	oral area

(10 × 1) (10)

3.2 Name FIVE circumstances one should wash your hands. (5)

3.3 What is considered a normal body temperature? (2)

3.4 Name the THREE different pulse sites on the human body. (3 × 2) (6)

3.5 List the FIVE different hand movements that are used when one has suffered a stroke and has damaged the nerves of the hand. (5)

3.6 State TWO observations that should be done during the primary assessment when assessing a life-threatening condition. (2)

[30]

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QUESTION 4

4.1 Study FIGURE 1 below and answer the questions.

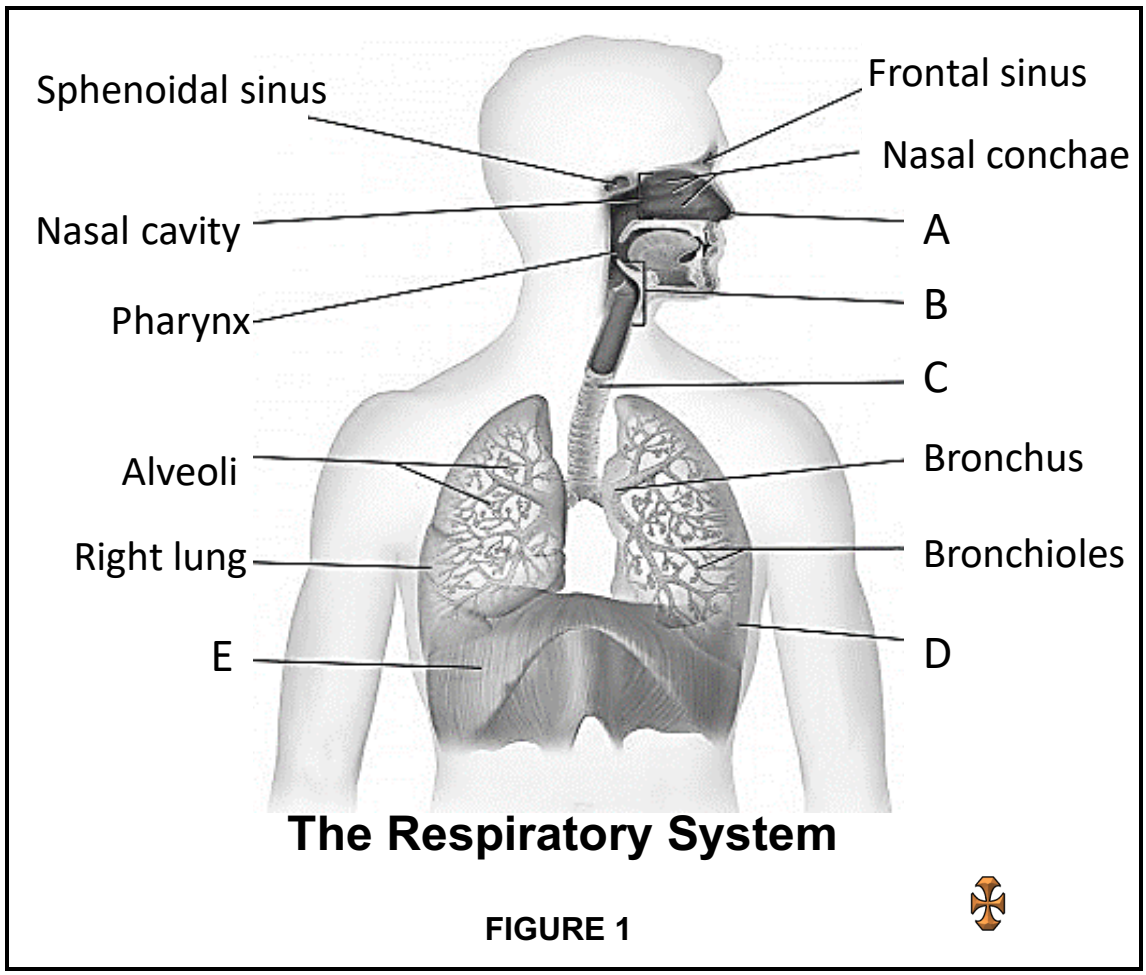


FIGURE 1

[Source: *https://owlcation.com/stem/Thirty-Surprising-Facts-About-the-Respiratory-System*, 21 June 2019.]

4.1.1	Which system does the image above represent?	(2)
4.1.2	Provide labels for A, B, C, D and E.	(5)
4.1.3	Name FOUR illnesses that can affect the above system.	(4)
4.1.4	What does respiration consist of? (2 × 2)	(4)
4.1.5	List THREE other functions of the above system besides breathing.	(3)
4.1.6	What type of gases are breathed in with inhaling and breathed out when exhaling during respiration? (2 × 2)	(4)
4.1.7	Explain what happens to the chest during inspiration.	(2)
4.1.8	Name the THREE parts of the pharynx and where it is located.	(6)

[30]

QUESTION 5

5.1 Study FIGURE 2 image below and answer the questions.



FIGURE 2

[source:*https://www.dualdiagnosis.org/anger-issues-addiction/costs-of-anger-management-programs/*, 21 June 2019]

5.1.1 The image above depicts a certain type of behaviour.

What type of behaviour do you think it is? (2)

5.1.2 List the key concepts of psychology. (4)

5.1.3 Name and discuss the behaviourist B.F. Skinner's theory. (10)

5.1.4 What type of situation would prompt the behaviour as depicted in the image above? (5)

5.2 Name the FIVE basic goals of psychology. (5)

5.3 Give FOUR examples of fruits that are found on the tree of mental health. (4)

[30]

TOTAL: 150

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