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NATIONAL EXAMINATIONS COUNCIL

2023 BASIC EDUCATION CERTIFICATE EXAMINATION

B8301 & B8302
BASIC SCIENCE
AND TECHNOLOGY

2 hours

I&II

Please do not open this question booklet until you are told to do so. While waiting, read the following instructions carefully.

There are **two** papers of **sixty (60) multiple-choice** questions each. **Paper I** which is Basic Science and Physical and Health Education will last for **1 hour** after which the OMR Sheet will be collected. **Paper II** which is Basic Technology and Computer Studies will also last for **1 hour**.

PAPER I BASIC SCIENCE & PHYSICAL AND HEALTH EDUCATION

Time Allowed: 1 hour

INSTRUCTIONS TO CANDIDATES

- 1. Answer all questions,
- 2. Use **HB pencil** only.
- 3. Write your **Name** and **School Name** on the answer sheet provided. Also, write and shade appropriately your **Registration Number** in the spaces provided.
- 4. Answer each question by shading the box that corresponds to the option you have chosen.
- 5. Do **not** waste time on any question. If you find any difficult, go to the others and finish them before you come back to the difficult one(s).
- 6. There must **not** be more than one shading for an answer. Any answer with shading of more than one box will be marked wrong.
- 7. If you change your mind about an answer, completely erase the first shading.
- 8. Do **not** start until the Supervisor tells you to do so.

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Turn Over.

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BASIC SCIENCE & PHYSICAL AND HEALTH EDUCATION Time Allowed: 1 hour

PAPER I BASIC SCIENCE

C. refuse. D. sewage. E. sullage. 2. A masked trait is said to be allelic. В. dominant. C. genotypic. D. phenotypic. E. recessive. 3. The following are reasons for skill acquisition except for fun making. В. managing emergencies. C. self employment. D. survival strategy.

Human solid and liquid wastes from homes is known as

4. The incubation period in birds is between

taking risks.

- A. fertilization and hatching of eggs.
- B. fertilization and laying of eggs.
- C. hatching of the first egg and the last egg.
- D. laying and hatching of eggs.
- E. laying of the first egg and hatching.
- 5. Which of the following is an example of waterborne disease?
 - A. Cold

1.

В.

E.

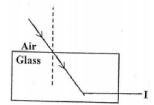
- B. Measles
- C. Pneumonia
- D. Tuberculosis

effluent.

garbage.

- E. Typhoid
- 6. A product of tobacco is
 - A. cigarette.
 - B. cocaine.
 - C. heroin.
 - D. marijuana.
 - E. morphine.
- 7. The process by which food substances are broken down into simple and soluble form is called
 - A. defecation.
 - B. digestion.
 - C. excretion.
 - D. mastication.
 - E. regurgitation.

Study the diagram below and use it to answer questions 8 and 9.



8.	The	diagram	illustrates
.	1110	aragrani	masuaces

- A. diffused reflection.
- B. laws of refraction.
- C. refraction of light.
- D. regular reflection.
- E. scattered reflection.

9. The part labelled \mathbf{I} is the

- A. incident ray.
- B. reflected ray.
- C. reflecting medium.
- D. refracted ray.
- E. refracting medium.

10. The distribution of materials within an organism is known as

- A. circulation.
- B. digestion.
- C. excretion.
- D. reproduction.
- E. respiration.

11. Which of the following is a flowering plant?

- A. Conifer
- B. Fern
- C. Ixora
- D. Liverwort
- E. Moss

12. The conversion of water vapour to liquid is known as

- A. condensation.
- B. deposition.
- C. evaporation.
- D. sublimation.
- E. vaporization.

13. A microphone converts sound energy into _____ energy.

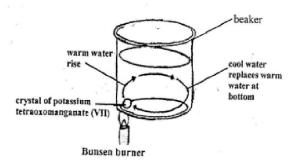
- A. electrical
- B. heat
- C. magnetic
- D. mechanical
- E. light

14. Which of the following is the chemical formula of water?

- A. HO
- B. H_2O_2
- C. h_20
- D. H_3O
- E. H_3O_2

15.	Which A. B. C. D. E.	of the following vitamins is also referred to as the "Sunshine vitamin"? A B D E K
16.	In the A. B. C. D, E.	solar system, the fourth planet from the sun is earth. mars. mercury. neptune. venus.
17.	Which A. B. C. D. E.	of the following is a renewable source of energy? Coal Diesel Petrol Gasoline Wood
18.	A. B. C.	s expand when energy is applied to them. chemical heat kinetic light sound
19.	Matter A. B. C. D. E.	two three four five six
20.	The fo A. B. C. D. E	llowing are methods of controlling soil erosion except bush burning. mulching. planting of cover crops. planting of trees. terracing.
21.	The mA. B. C. D. E.	ethod of growing food crops and trees on the same piece of land is afforestation. agroforestry. crop rotation. horticulture. mixed cropping.
22.	When it are A. B. C. D. E.	two forces act on a body and it remains at rest, it means the forces acting on equal and opposite. inactive. in constant motion. unbalanced. weak and active.

23. The method of heat transfer demonstrated in the diagram below is



- A. conduction.
- B. convection.
- C. evaporation.
- D. radiation.
- E. vaporization.
- 24. An engine pumps water of 50 kg through a vertical height of 4 m in 10s. Calculate the power of the pump in watts, $[g = 10 \text{ ms}^{-2}]$
 - A. 26
 - B. 54
 - C. 55
 - D. 74
 - E. 200
- 25. The energy possessed by a stationary ball is _____ energy.
 - A. chemical
 - B. electrical
 - C. kinetic
 - D. magnetic
 - E. potential
- 26. Which of the following is not a radioactive element?
 - A. Magnesium
 - B. Plutonium
 - C. Radium
 - D. Thorium
 - E. Uranium
- 28. When a bar magnet is suspended freely and it comes to rest, its ends point in the _____ direction.
 - A. East-West
 - B. North-South
 - C. North-West
 - D. South-East
 - E. South-West

Objective Questions 29 - 60 Removed in this Free Version

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BASIC SCIENCE AND PHYSICAL AND HEALTH EDUCATION PAPER I 2023

1.D	7.B	13.A	19.B	25.E	31.A	37.C	43.A	49.A	55.C
2.E	8.C	14.C	20.A	26.A	32.E	38.A	44.B	50.C	56.C
3.A	9.D	15.C	21.B	27.D	33.E	39.A	45.E	51.B	57.D
4.D	10A	16.B	22.A	28.B	34.E	40.D	46.E	52C	58.A
5.E	11.C	17.E	23.B	29.A	35.C	41.D	47.C	53.B	59.D
6.A	12.A	18.B	24.E	30.E	36.E	42.A	48.A	54.C	60.C