

**GENERAL CERTIFICATE OF EDUCATION BOARD**  
Technical and Vocational Education Examination

**JUNE 2025**

**KAWLO**

**INTERMEDIATE LEVEL**

Specialty Name and Acronym	HOME ECONOMICS – HEC
Centre Number	
Centre Name	
Candidate Identification Number	
Candidate Name	

Mobile phones are **NOT** allowed in the examination room.

**5050 NATURAL SCIENCE 1. MULTIPLE CHOICE QUESTIONS**

**Duration: One and a Half Hours**

**INSTRUCTIONS TO CANDIDATES**

*Read the following instructions carefully before you start answering the questions in this paper. Make sure you have a soft HB pencil and an eraser for this examination.*

1. USE A SOFT HB PENCIL THROUGHOUT THE EXAMINATION.
2. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

*Before the examination begins:*

3. Check that this question booklet is headed “Intermediate Level -5050 NATURAL SCIENCE 1.
4. Fill in the information required in the spaces above.
5. Fill in the information required in the spaces provided on the answer sheet using your HB pencil:

**Candidate Name, Exam Session, Subject Code and Candidate Identification Number.**

Take care that you do not crease or fold the answer sheet or make any marks on it other than those asked for in these instructions.

*How to answer the questions in this examination:*

6. Answer **ALL** the 50 questions in this Examination. All questions carry equal marks.
7. Each question has FOUR suggested answers: **A, B, C** and **D**. Decide which answer is correct. Find the number of the question on the Answer Sheet and draw a horizontal line across the letter to join the square brackets for the answer you have chosen.  
For example, if **C** is your correct answer, mark **C** as shown below:  
**[A] [B] [C] [D]**
8. Mark only one answer for each question. If you mark more than one answer, you will score a zero for that question. If you change your mind about an answer, erase the first mark carefully, then mark your new answer.
9. Avoid spending too much time on any one question. If you find a question difficult, move on to the next question. You can come back to this question later.
10. Do all rough work in this booklet, using, where necessary, the blank spaces in the question booklet.
11. Mobile phones are **NOT** allowed in the examination room.
12. **At the end of the examination, the invigilator shall collect the answer sheet first then the question booklet. DO NOT ATTEMPT TO LEAVE THE EXAMINATION ROOM WITH IT.**
13. Calculators are allowed.

**Turn Over**



1. Science can be defined as  
 A The study of nature.  
 B The study of matter in relation to energy.  
 C The systematic study of nature.  
 D The study of living things.

2. The use of quantities in the exact amounts is known as  
 A estimation.  
 B measurement.  
 C guessing.  
 D approximation.

3. Living things are divided into  
 A man and woman.  
 B plants and animals.  
 C bacteria and man.

4. A change from solid to liquid when heat is supplied is called  
 A freezing.  
 B boiling.  
 C melting.  
 D sublimation.

5. The part of the cell that controls all its activities is  
 A Nucleus.  
 B Cell membrane.  
 C Cytoplasm.  
 D Sap vacuole.

6. The structures found in both animal and plant cells are  
 A Cell membrane and chloroplast.  
 B Cell wall and chloroplast.  
 C Cell wall and nucleus.  
 D Cell membrane and nucleus.

7. Which of the following is a common property of bases?  
 A Sour taste.  
 B Turn litmus paper red.  
 C Slippery or soapy feel.  
 D React with metals to produce hydrogen gas.

8. What is the chemical formula for water?  
 A  $\text{H}_2\text{O}_2$ .  
 B  $\text{H}_3\text{O}$ .  
 C  $\text{H}_2\text{O}$ .  
 D  $\text{HO}$ .

9. Which of the following metals is most reactive?  
 A K  
 B Li  
 C Na  
 D Ca

10. Rust can be prevented by the following methods except  
 A oiling.  
 B coating.  
 C painting.  
 D adding water.

11. The general formula for Alkane is  
 A  $\text{C}_n\text{H}_{2n+2}$   
 B  $\text{C}_{2n+1}\text{H}_{2n}$   
 C  $\text{C}_n\text{H}_{2n}$   
 D  $\text{C}_n\text{H}_n$

12. \_\_\_\_\_ is a plant or animal that is detrimental to other organisms.  
 A Host  
 B Pest  
 C Parasite  
 D Predator

13. How many bones make up the vertebral column?  
 A 7.  
 B 33.  
 C 20.  
 D 22.

14. The function of the skeletal system in man is  
 A digestion.  
 B respiration.  
 C support.  
 D excretion.

15. Pollination is the transfer of  
 A pollen from anther to ovary.  
 B pollen from anther to style.  
 C pollen from anther to stigma.  
 D pollen from anther to ovule.

16. The male reproductive part of a flower are collectively known as  
 A Androecium.  
 B Filament.  
 C Anther.  
 D Gynoecium.

17. In humans, the development of fertilized egg takes place in the  
 A Ovary.  
 B Testes.  
 C Oviduct.  
 D Uterus.

18. Ejaculation can be defined as the  
 A release of sperms.  
 B release of ova.  
 C formation of eggs.  
 D formation of sperms.



19. The trachea branches into  
 A Ribs.  
 B Bronchi.  
 C Bronchioles.  
 D Alveoli.
- 
20. \_\_\_\_\_ is the process by which oxygen is taken into the body and carbon dioxide is removed.  
 A Inhalation  
 B Exhalation  
 C Diffusion  
 D Respiration
- 
21. Which of the following is a rich source of carbohydrate?  
 A Yams.  
 B Beans.  
 C Animals.  
 D Insects.
- 
22. The vitamin that functions in blood clotting is  
 A C.  
 B A.  
 C D.  
 D K.
- 
23. Which of the following is not an excretory product?  
 A Sweat.  
 B Faeces.  
 C Water vapour.  
 D Carbon dioxide.
- 
24. The elimination of toxic metabolic wastes from the body is referred to as  
 A excretion.  
 B urination.  
 C defecation.  
 D fermentation.
- 
25. The blood vessel that allows substances to pass through its walls is  
 A Arteries.  
 B Veins.  
 C Capillaries.  
 D Aorta.
- 
26. All arteries carry  
 A oxygenated blood.  
 B deoxygenated blood.  
 C blood away from the heart.  
 D blood towards the heart.
- 
27. All veins carry \_\_\_\_\_  
 A oxygenated blood.  
 B deoxygenated blood.  
 C blood away from the heart.  
 D blood towards the heart.
- 
28. Which part of the brain controls the balance of the body?  
 A Cerebellum.  
 B Cerebrum.  
 C Medulla oblongata.  
 D Hypothalamus.
- 
29. The neuron connected to the effector is the  
 A Relay neuron.  
 B Receptor neuron.  
 C Sensory neuron.  
 D Motor neuron.
- 
30. The SI unit of energy is  
 A Watt.  
 B Joule.  
 C Kelvin.  
 D Degree.
- 
31. Energy from food and fuel is known as  
 A Mechanical energy.  
 B Sound energy.  
 C Light energy.  
 D Chemical energy.
- 
32. The reactants of photosynthesis are  
 A Glucose and oxygen.  
 B Carbon dioxide and water.  
 C Oxygen and carbon dioxide.  
 D Water and oxygen.
- 
33. An example of a good semiconductor is  
 A Germanium  
 B Silicon  
 C Carbon  
 D Sulphur
- 
34. An instrument used for measuring electric current is  
 A Voltmeter.  
 B Newton meter.  
 C Thermometer.  
 D Ammeter.
- 
35. Which of the following will allow electricity to pass through it easily?  
 A Copper.  
 B Wood.  
 C Rubber.  
 D Cloth.
- 
36. Heat can be detected by a  
 A Barometer.  
 B Manometer.  
 C Newton meter.  
 D Thermometer.
-



37. One of the following is a primary consumer.

- A Grasshopper.
- B Lizards.
- C Rats.
- D Dogs.

38. In the ecosystem, the primary source of energy is

- A ATP.
- B Sun.
- C The green plant.
- D Sugar.

39. The consequence of ozone layer depletion is

- A Malignant melanoma-skin cancer
- B Rashes.
- C Increased population.
- D Tides.

40. A person with blood group O can only receive blood from

- A O
- B AB
- C A or B
- D A, B, AB or O

41. When the plasma of a person has both anti A and anti B antibodies, the individual will belong to blood group

- A A.
- B B.
- C AB.
- D O

42. During welding, one should protect the eyes by using

- A Dark glass screen.
- B Mask.
- C Safety goggles.
- D Sun goggles.

43. Which of the following cannot be used as a safety device?

- A Helmet.
- B Interlocks.
- C Limit switch.
- D Chair.

44. Gonorrhoea is caused by

- A Bacterium.
- B Fungus.
- C Virus.
- D Protozoan.

45. What is the main route of transmission of cholera?

- A Air-borne.
- B Vector-borne.
- C Water-borne.
- D Food-borne.

46. The organization in charge of food is

- A UNICEF
- B WHO
- C EPAR
- D FAO

47. An organization that administers programmes to aid education and children is

- A EPA
- B FAO
- C Red Cross
- D UNICEF

48. The force that opposes motion is

- A Friction.
- B Tension.
- C Up thrust.
- D Magnetic Force.

49. What is the work done by someone carrying a bag of cement and standing on one spot?

- A 30J.
- B 26J.
- C 100J.
- D 0J.

50. Velocity is defined as \_\_\_\_\_ per unit time.

- A distance
- B displacement
- C power
- D acceleration

**STOP**

**GO BACK AND CHECK YOUR WORK**