KENYA NATIONAL ASSESSMENT TESTS Kenya Certificate of Primary Education

5**07**





2020 - 1 hour 40 minutes

INSTRUCTIONS TO CANDIDATES (Please read these instructions carefully)

- 1. You have been given this question booklet and a separate answer sheet. The question booklet contains 50 questions
- 2. Do any necessary rough work in this book et
- 3. When you have crosen your answer, mark it on the ANSWER SHEET, not in this question booklet.

HOW TO USE THE ANSWER SHEET

- 4. Use an ordinary pencil only.
- 5 Confirm that the answer sheet that you have been provided with has the following:

YOUR INDEX NUMBER YOUR NAME NAME OF YOUR SCHOOL

- 5. Do not make any marks outside the boxes.
- 7. Keep the sheet as clean as possible and do not fold it.
- 8. For each of the questions 1–50, four answers are given. The answers are lettered A, B, C and D. In each case only **ONE** of the four answers is correct. Choose the correct answer.
- 9. On the answer sheet, show the correct answer by drawing a **dark line** inside the box in which the letter you have chosen is written.

Example:

In the Question Booklet.

- 4. Which one of the following is the third stage of HIV/AIDS infection?
 - A. Symptomatic.
 - B. Window.
 - C. Full blown.
 - D. Incubation.

The correct answer is A.

On the answer sheet:



In the set of boxes numbered 4, the box with the letter A printed in it is marked.

- 10. Your dark line MUST be within the box.
- 11. For each question **ONLY ONE** box is to be marked in each set of four boxes.



This Question Paper consists of 7 printed pages and 1 blank page.

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Turn over

1. The diagram below represents a certain type of human tooth.

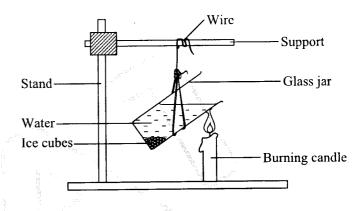


The tooth represented is

- A. canine.
- B. molar.
- C. incisor.
- D. premolar.
- 2. Bronchioles in the human breathing system are located in the
 - A. lungs.
 - B. nose.
 - C. diaphragm.
 - D. trachea.
- 3. At birth an infant is immunised mainly against
 - A. tuberculosis only.
 - B. tuberculosis and pertussis.
 - C. tuberculosis and poliomyelitis.
 - D. poliomyelitis only.
- 4. To move a stationary object a force is applied to overcome
 - A. inertia.
 - B. friction.
 - C. weight.
 - D. gravity.
- 5. Which one of the following parts of the human digestive system is **correctly** matched with its function?

Part A. Small in B. Large in C. Rectum D. Stomacl	ntestines	Function Absorbs water. Stores undigested food. Completes digestion of food. Produces enzymes.
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6. The diagram below represents a set-up that can be used to investigate a certain aspect of heat energy.



The aspect investigated is

- A. convection of heat in water.
- B. water is a poor conductor of heat.
- C. water changes state when heated.
- D. ice melts when heated.
- 7. Which one of the following pairs of fertilizers is **correctly** classified into straight and compound fertilizers?

	Straight fertilizer	Compound fertilizer
Α.		Sulphate of Ammonia.
	phosphate	
R	Muriate of potash	Double Super

- C. Sulphate of potash

phosphate. Mono Ammonium phosphate. Diammonium sulphate.

- D. Triple Super phosphate
- 8. Plants depend on soil mainly for
 - A. shade and decomposition.
 - B. support and decomposition.
 - C. water and nutrients.
 - D. support and nutrients.
 - **9.** Pupils observed bottles filled with water and placed close to each plant in a nearby vegetable farm. Which method of water conservation was being practised in the farm?
 - A. Using water sparingly.
 - B. Re-using water.
 - C. Water harvesting.
 - D. Recycling water.

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- **10.** The importance of water in the human diet is mainly to
 - A. prevent constipation.
 - B. help in removal of waste products.
 - C. prevent deficiency diseases.
 - D. provide nutrients.
- 11. The following are some characteristics of certain vertebrates:
 - (i) lay fertilized eggs.
 - (ii) have scales.
 - (iii) breathe through lungs.
 - (iv) do not suckle young ones.

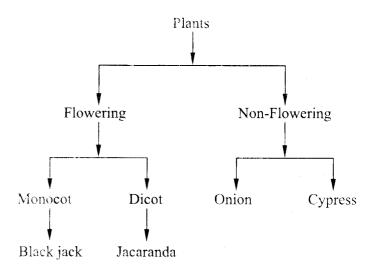
Which one of the following pairs of vertebrates has all the characteristics listed?

- A. Reptiles and birds.
- B. Birds and fish.
- C. Amphibums and reptiles.
- D. Fish and emphibians.
- 12. The following are signs of ill health in crops except
 - A. wilting.
 - B. malformed plant parts.
 - C. colour of leaves.
 - D. leaf curling.
- 3. In which one of the following are the uses of the components that make up 0.03% and 21% of air correctly matched?

	0.03%	21%
А.	Burning	Photosynthesis.
В.	Germination	Putting out fires.
€.	Breathing	Burning.
Ð,	Putting out fires	Germination.

- 14. Which one of the following is not drug abuse?
 - A. Taking prescribed medicine for a long time.
 - Taking less of the prescribed medicine.
 - C. Using the medicine for a wrong sickness.
 - D. Taking an overdose of a prescribed medicine.

15. The chart below represents a simple classification of plants.



Which one of the following pairs of plants is **not** correctly classified?

- A. Jacaranda and cypress.
- B. Black jack and cypress.
- C. Jacaranda and enion.
- D. Black jack and onion
- **16.** A child with pale skin, rapid heuribeat and a feeling of dizziness should be given a dust rich in
 - A. proteins.
 - B. vitamin D.
 - C. iron.
 - D. calcium.

17. Which one of the following materials is magnet.

- A. Copper wire.
- B. Office pin.
- C. Pencil lead.
- D. Silver coin.
- **18.** Which one of the following statements is **correct** about handling chemicals used at home?
 - A. Spraying chemicals where there is sufficient ventilation.
 - B. Keeping chemicals in a food store away from children.
 - C. Throwing empty chemical packets in a compost pit.
 - D. Storing chemicals in sealed juice bottles.

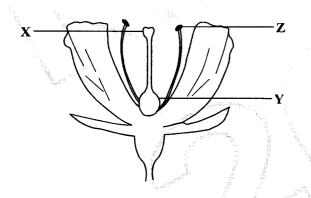
- 4
- **19.** The following are signs of attack by parasites in livestock:
 - restlessness. (i)
 - (ii) anaemia.
 - (iii) irritation.
 - (iv) enlarged stomach.

Which one of the following pairs can be signs of attack by internal parasites?

- A. (i) and (iii).
- B. (ii) and (iii).
- C. (i) and (iv).
- D. (ii) and (iv).

20. HIV is least likely to be transmitted through

- A. blood.
- B. sweat.
- C. breast milk.
- D. saliva.
- 21. The diagram below represents some parts of a flower.



Pollination takes place when reproductive cells are transferred from

- A. \mathbf{Z} to \mathbf{X} .
- B. X to Y.
- C. Z to Y.
- D. X to Z.
- **22.** In which one of the following are **both** changes during adolescence correctly grouped as emotional and physical?

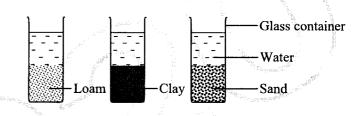
Emotional

Physical

- A. Voice deepens
- **B.** Moodiness C. Worry about pimples

Pubic hair grows. Worry about pimples. Releasing of sex cells. D. Releasing of sex cells Moodiness.

- 23. Which one of the following pairs of livestock parasites can be controlled by either rotational grazing or de-worming?
 - A. Ticks and tapeworms.
 - B. Liver flukes and fleas.
 - C. Ticks and tsetse flies.
 - D. Liver flukes and tapeworms.
- 24. Which one of the following methods conserves soil by mainly improving its fertility and preventing soil erosion?
 - A. Cover crops.
 - B. Terracing.
 - C. Contour ploughing.
 - D. Mulching.
- **25.** The set-up shown below was used by pupils to carry out an investigation on soil.



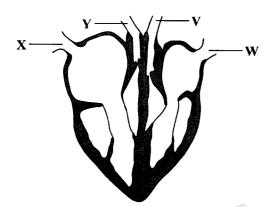
The investigation was to

- A. compare the air content in different types of soil.
- B. show the composition of different types of soil.
- C. compare drainage in different types of soil.
- D. show how different types of soil retain water.
- **26.** The most effective control measure against HIV transmission in society is
 - A. abstinence from sex by youth.
 - B. public awareness on HIV/AIDS.
 - C. transfusing screened blood.
 - D. avoiding drug abuse.

27. The term habitat can best be described as

- A. the surrounding of a living organism.
- B. where a living organism obtains food from.
- C. the home of a living organism.
- D. where a human being lives.

28. The diagram below represents a mammalian heart.



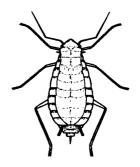
Blood to the lungs flows through the blood vessel labelled

- A. V.
- B. **W**.
- C. X.
- D. Y.
- **29.** Which one of the following commonly abused drugs has the **worst** effect on the user?
 - A. Heroin.
 - B. Tobacco.
 - C. Alcohol.
 - D. Glue,
- **30.** The following are some of the materials that were provided to pupils for making a certain weather instrument:
 - (i) manila paper.
 - (ii) glass bottle.
 - (iii) water.
 - (iv) biro pen tube.
 - (v) plasticine.

Which one of the following materials was missing?

- A. Nail.
- B. Ink.
- C. Strong string.
- D. Cardboard.

- **31.** Which one of the following pairs of uses of water is practised in the farm?
 - A. Washing toilet and watering plants.
 - B. Mixing chemicals and making pulp.
 - C. Cleaning implements and mixing chemicals.
 - D. Washing cars and cleaning implements.
- **32.** An example of a lever that can work **either** with the fulcrum between the load and effort **or** with the load between the fulcrum and effort is a
 - A. spade.
 - B. claw hammer.
 - C. wheelbarrow.
 - D. crowbar.
- **33.** Oil spillage causes water pollution by
 - A. increasing growth of harmful organisms.
 - B. reducing amount of dissolved mineral salts.
 - C. reducing amount of dissolved oxygen.
 - D. increasing solid impurities.
- 34. Pupils went for a nature walk and observed a plant with small white flowers, small reddish-yellow fruits and is used as a vegetable. The plant observed was likely to be
 - A. Black nightshade.
 - B. Pigweed.
 - C. Wandering jew.
 - D. Mexican marigold.
- **35.** The diagram below shows a certain crop pest.



The pest belongs to the same group as

- A. white ants and stalk borers.
- B. stalk borers and cutworms.
- C. mice and white ants.
- D. weevils and mice.

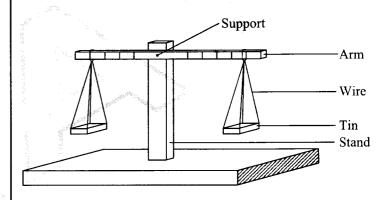
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- **36.** Which one of the following teeth problems is as a result of lack of protective food in the human diet?
 - A. Bleeding gums.
 - B. Dental cavities.
 - C. Tooth decay.
 - D. Bad smell.
- **37.** Which one of the following is a preventive measure against the spread of bilharzia?
 - A. Drinking filtered water.
 - B. Treating infected persons.
 - C. Washing hands after visiting a toilet.
 - D. Proper disposal of human waste.
- **38.** The following activities were done by pupils during a thunderstorm:
 - (i) Squatting on the ground away from tall trees.
 - (ii) Using an umbrella on the footpaths.
 - (iii) Wearing rubber shoes on the playing field.
 - (iv) Leaning against the classroom walls.

Which **two** are recommended to avoid being struck by lightning?

- A. (i) and (iv).
- B. (ii) and (iv).
- C. (ii) and (iii).
- D. (i) and (iii).
- **39.** In a certain activity, pupils were asked to listen as an aircraft was flying overhead their classroom. This was to investigate
 - A. direction of sound.
 - B. amplification of sound.
 - C. meaning of special sounds.
 - D. effects of sound pollution.
- **40.** The **best** procedure of separating a mixture of chalk powder and salt is
 - A. dissolving, filtering, evaporating.
 - B. sieving, dissolving, evaporating.
 - C. dissolving, decanting, evaporating.
 - D. winnowing, dissolving, evaporating.

- **41.** The following practices for maintaining simple tools would help to make work easier **except**
 - A. proper storage.
 - B. sharpening.
 - C. proper use.
 - D. greasing.

42. Pupils constructed a simple machine shown below.



The machine would not work efficiently if pupils

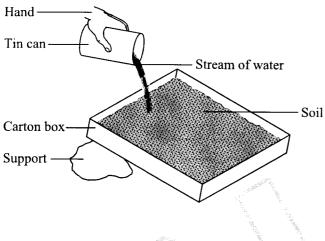
- A. used tins of the same size.
- B. had the support tightly fixed to the arm.
- C. suspended the tins at different distances from the support.
- D. had the stand fixed to the ground.

43. Which one of the following statements about hard water is **not** correct? Hard water

- A. forms scale in water pipes.
- B. requires a lot of soap for washing.
- C. can cause bleaching of clothes.
- D. can be softened by boiling.
- **44.** On a certain day early in the morning, a pupil noticed a bright heavenly object that was not twinkling. In the evening the pupil noticed another heavenly body with similar characteristics. The heavenly bodies were likely to be
 - A. Venus and Jupitor.
 - B. Mars and Jupiter.
 - C. Mars and Mercury.
 - D. Venus and Mercury.

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45. The diagram below represents a set-up that was used to demonstrate certain types of soil erosion.



The types of soil erosion demonstrated were likely to be

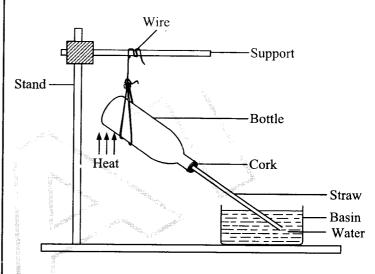
- A. rill and sheet.
- B. splash and sheet.
- C. rill and gulley.
- D. splash and gulley.
- 46. The following are some methods of preserving food:
 - (i) canning.
 - (ii) using low temperatures.
 - (iii) using honey.
 - (iv) freezing.

Which one of the following pairs of food can be preserved by **all** the methods listed?

- A. Kale and meat.
- B. Beans and kale.
- C. Pineapples and beans.
- D. Meat and pineapples.
- **47.** The following materials will form shadows when light is shone on them **except**
 - A. piece of cloth.
 - B. vehicle windscreen.
 - C. sheet of white paper
 - D. plane mirror.

48. The diagram below shows a set-up used to demonstrate a certain aspect of matter.

7



Which one of the following would **not** be observed if the bottle was heated gently?

- A. Water level in the basin decreasing when bottle is heated.
- B. Water rising up the straw when heating is stopped.
- C. Bubbles in the basin when bottle is heated.
- D. Water level in the basin decreasing when heating is stopped.
- **49.** The main reason why sawdust is spread on polished floor surface of a room is to
 - A. absorb dirt.
 - B. increase grip with feet.
 - C. prevent damage to the floor.
 - D. make the room feel warm.
- **50.** To demonstrate a certain aspect of light in bright sunshine, the following materials are used:
 - (i) container.
 - (ii) straw.
 - (iii) water.
 - (iv) soap powder.

The aspect more likely to be demonstrated is

- A. refraction of light.
- B. how light travels.
- C. passage of light through materials.
- D. making a rainbow.