THE KENYA NATIONAL EXAMINATIONS COUNCIL Kenya Certificate of Primary Education









SDD

Mar. 2021 – 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 booklet.
- 3. When you have chosen 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

- 6. 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 components of blood is involved in clotting after injury?
 - A. Plasma
 - B. White blood cells
 - C. Red blood cells
 - D. Platelets.

The correct answer is D.

On the answer sheet:

In the set of boxes numbered 4, draw a dark line inside the box with the letter D printed in it as indicated below.

• [A] [B] [C] [D]

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.

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- In which part of the digestive system are 1. mineral salts absorbed?
 - A. Mouth.
 - B. Stomach.
 - Small intestines.
 - D. Large intestines.
- Which one of the following is the correct 2. order of development after fertilisation in human beings?
 - A. Embryo \rightarrow Zygote \rightarrow Foetus. B. Zygote \rightarrow Foetus \rightarrow Embryo. C. Zygote \rightarrow Embryo \rightarrow Foetus. D. Embryo \rightarrow Foetus \rightarrow Zygote.
- 3. Which one of the following is an adaptation of plants in dry areas?

- 6. Which one of the following instruments used to measure two different aspects of weather?
 - A. Wind vane.
 - Thermometer. Β.
 - Rain gauge.
 - D. Windsock.
- Which one of the following is a proper use 7. of drugs?
 - A. Taking more dosage of prescribed medicine to heal faster.
 - B. Buying prescribed drugs from the pharmacy.
 - C. Borrowing drugs from a neighbour whenever sick.
 - D. Taking malaria drugs whenever you have a headache.

- A. Fewer leaves.
- B. Broad leaves.
- C. Thin cuticle.
- D. Many stomata.
- The following are some characteristics of 4. weeds:
 - (i) strong smell
 - thoms on stem (ii)
 - (iii) pink flowers
 - (iv) purple or white flowers

Which two characteristics are for sodom apple?

- A. (ii) and (iii)
- B. (ii) and (iv)
- C. (i) and (iii)
- D. (i) and (iv)
- The human tooth that mainly helps to tear 5. meat from bones is

- In Kenya, rivers passing through cities are 8. mainly polluted by
 - A. industrial wastes
 - B. oil spillage
 - C. soil erosion
 - D. agricultural chemicals.
- Which one of the following pairs of 9. vaccines is administered at birth?
 - A. BCG and DPT.
 - B. DPT and measles.
 - C. BCG and polio.
 - D. Polio and measles.
- 10. Which one of the following is the least effective control measure for sexually transmitted diseases among married couples?
 - A. Being faithful to their partners.

A. incisor B. canine C. premolar D. molar.

- B. Use of sterilised personal items.
- C. Testing and counselling.
- D. Abstinence.

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- 11. Which one of the following statements is true about blood vessels?
 - A. Aorta has valves.
 - B. Vena cava has thin walls.
 - C. Pulmonary vein carries deoxygenated blood.
 - D. Pulmonary artery carries blood to the heart.
- 12. In order to save soap during washing, the most suitable source of water is
 - A. rain
 - B. river
 - C. spring
 - D. borehole.
- 13. Pupils observed that some objects with hooks had stuck on their clothes. The

- 16. Which one of the following is the importance of pretest counselling for HIV/AIDs? To
 - A. avoid spreading the disease to other people
 - B. understand the risk of contracting the disease
 - C. understand the importance of good nutrition for healthy living
 - D. give advice on living positively with the disease.
- 17. The following are some characteristics of cross pollinated flowers:
 - (i) small and firmly attached anthers (ii) produces many pollen grains (iii) stigma is inside the flower

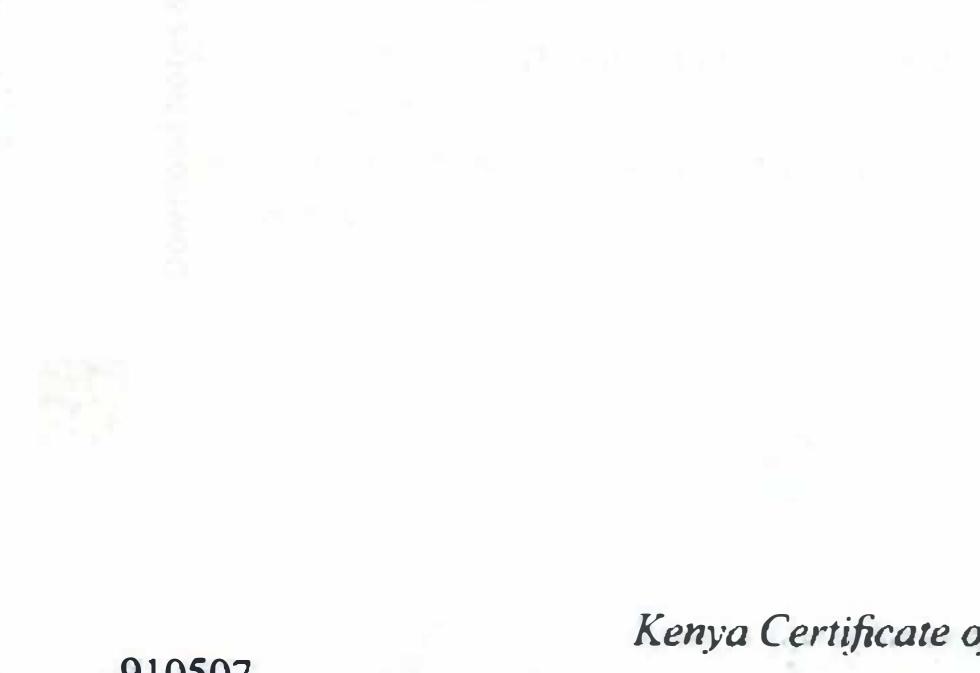
objects are likely to have come from

- A. sodom apple
- B. mexican marigold
- C. black jack
- D. oxalis.
- 14. An individual with teeth problems is likely to have started by experiencing
 - A. bleeding gums
 - B. tooth decay
 - C. cavities
 - D. bad smell.
- **15.** Which one of the following methods can control both ticks and liver flukes?
 - A. Rotational grazing.
 - B. Dipping.
 - C. Spraying.
 - D. Deworming.

- (iv) stigma is sticky
- (v) stigma hangs outside the flower
- (vi) flowers are large in size

Which four characteristics are only for insect pollinated flowers?

- A. (i), (iii), (iv), (vi)B. (i), (ii), (iii), (iv) C. (iii), (iv), (v), (vi) D. (ii), (iv), (v), (vi)
- 18. In which one of the following activities is water used for transport?
 - A. Swimming.
 - B. Boat crossing a river.
 - C. Boat racing.
 - D. Fishing.
- **19.** Which one of the following disease symptoms is for cholera?



A. Vomiting and diarrhoea. Itchiness and coughing. Β. Blood in stool.

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Blood in urine. D.

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- 20. Which one of the following parts of the digestive system does not produce digestive enzymes?
 - A. Small intestines.
 - B. Mouth.
 - C. Large intestines.
 - D. Stomach.
- 21. Which one of the following is the most effective control measure against the spread of malaria?
 - A. Sleeping under a mosquito net.
 - B. Use of mosquito repellant.
 - C. Treating of infected persons.
 - D. Draining of stagnant water.
- 22. Which one of the following is a social

- 25. Pupils put a sample of fresh garden soil in a transparent container, added water, shook the mixture and allowed it to settle for some time. The pupils were investigating soil
 - A. composition
 - B. drainage
 - C. texture
 - D. capillarity.
- 26. The soil that has high capillarity
 - A. consist of large particles
 - B. has high water retention capacity
 - C. is the best for farming
 - D. has large air spaces.
- 27. The type of soil erosion that can occur

effect of drug abuse?

- A. Withdrawal.
- B. Black out.
- C. Impaired judgement.
- D. Drug induced accidents.
- 23. Which one of the following pairs consists only of plants with fibrous roots?
 - A. Sorghum and peas.
 - B. Millet and mango.
 - C. Coconut and maize.
 - D. Onion and potato.
- 24. Which one of the following practices can reduce the pollution of both soil and air?
 - A. Burying solid waste.
 - B. Use of incinerators.
 - C. Proper stocking.
 - D. Mulching.

without its effects being easily noticed is

- A. splash
- B. gulley
- C. sheet
- D. rill.
- 28. In which one of the following practices is energy best conserved? Using
 - A. biogas
 - B. candle
 - C. dynamo
 - D. solar panel.
- 29. Which one of the following is not a reason for breast feeding in human beings? Breast milk is
 - A. free from germs
 - B. readily available
 - C. easily digested
 - D. at correct temperature.



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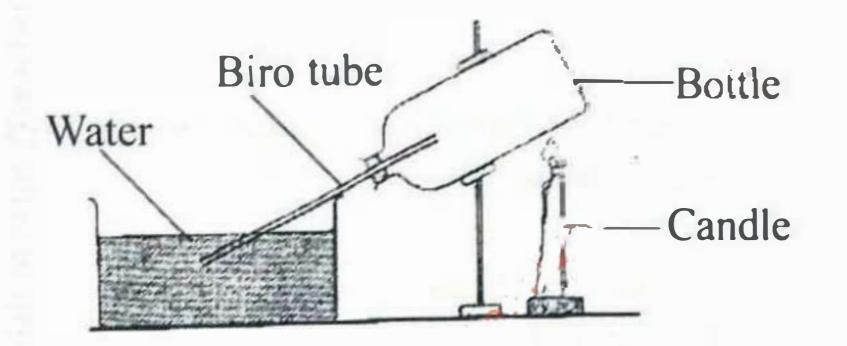
- **30.** A certain child showed the following signs and symptoms:
 - (i) protruding bones
 - (ii) wrinkled face
 - (iii) eyes popping out
 - (iv) high appetite

The most suitable food for the child is

- A. banana, chapati, pawpaw
- B. beans, ugali, fish
- C. meat, chapati, pawpaw
- D. milk, peas, fish.
- 31. Which one of the following pairs of food is preserved by both drying and use of honey?
 - A. Meat and vegetables.

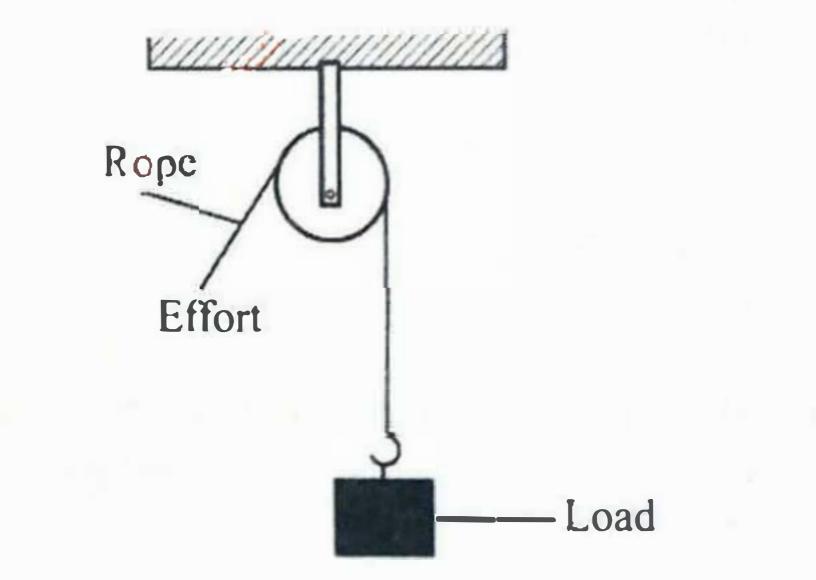
- 33. Heat transfer through a glass window pane is by
 - A. radiation and convection
 - B. radiation only
 - C. conduction and radiation
 - D. conduction only.
- 34. Which one of the following is the main reason why tanks are placed on top of buildings? It is to
 - A. prevent theft of the tank
 - B. prevent contamination of water
 - C. completely drain the water
 - D. increase water pressure.
- **35.** The diagram below shows a single fixed pulley in use.

- B. Fruits and fish.
- C. Fish and milk.
- D. Fruits and vegetables.
- **32.** The diagram below shows a set up that was used by pupils to investigate expansion and contraction.



Which one of the following is a correct observation made by the pupils?

- A. Water rose up the biro tube on cooling the bottle.
- B. Bubbles were observed on cooling the bottle.



Which one of the following will occur when the rope is pulled down on the effort side?

- A. The load reduces.
- B. Direction of effort changes.
- C. Effort reduces.
- D. Direction of the load changes.

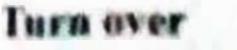
- C. Water rose up the biro tube on heating the bottle.
- D. The biro tube expanded on heating the bottle.



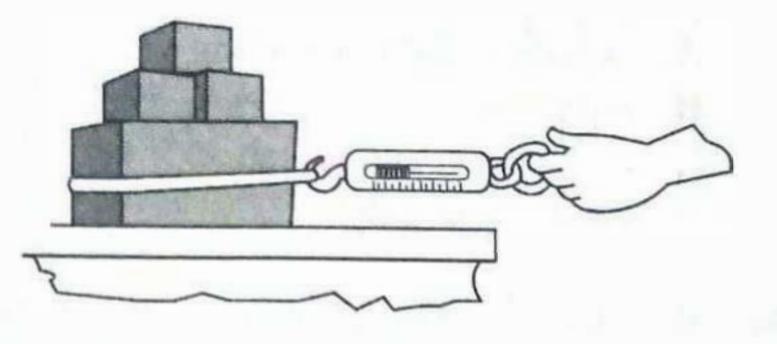
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36. The diagram below shows a set up used by pupils in a certain investigation.



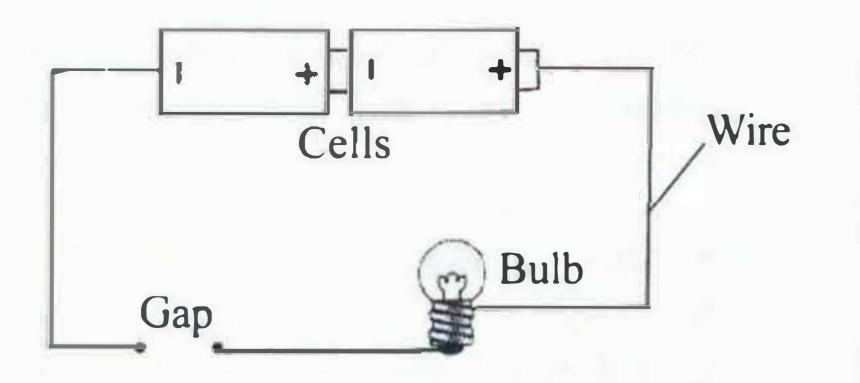
The pupils were investigating

- A. mass
- B. length
- C. friction
- D. motion.
- 37. In order to make a beam balance, pupils were provided with strings, plank of wood, nails and timber. Which one of the

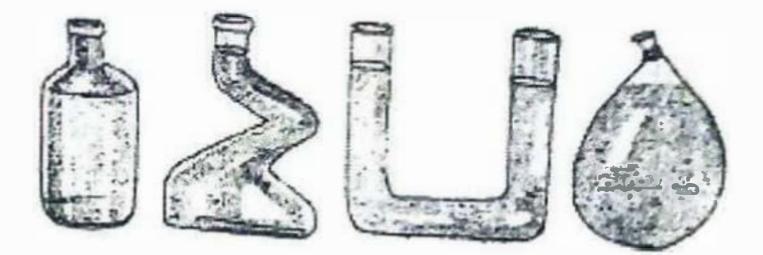
- **39.** Which one of the following processes on change of states of matter does **not** involve absorption of heat from the environment?
 - A. Leaning against walls.
 - B. Walking on open areas.
 - C. Wearing shoes with rubber soles.
 - D. Using an umbrella.
- **40.** The component of air that is 0.03% by volume is used for the following except
 - A. putting out fire
 - B. germination
 - C. making of plant food
 - D. preserving soft drinks.
- 41. In an investigation on characteristics of

following materials was also required?

- A. Pointer.
- B. Scale.
- C. Cardboard.
- D. Tins.
- **38.** The diagram below represents a set up that can be used to investigate good and poor conductors of electricity.



Which one of the following materials when connected to the wire at the gap will **not** make the bulb to light? matter, pupils filled different shaped containers with water as shown in the set up helow.



The characteristic of matter investigated is that liquids

- A. have definite volume
- B. have definite mass
- C. occupy space
- D. have definite shape.
- **42.** The diagram below shows a certain livestock parasite.



A. Thread.B. Keys.C. Razor blade.D. Pencil tip.

The livestock parasite is

A. tsetse flyB. tickC. miteD. flea.

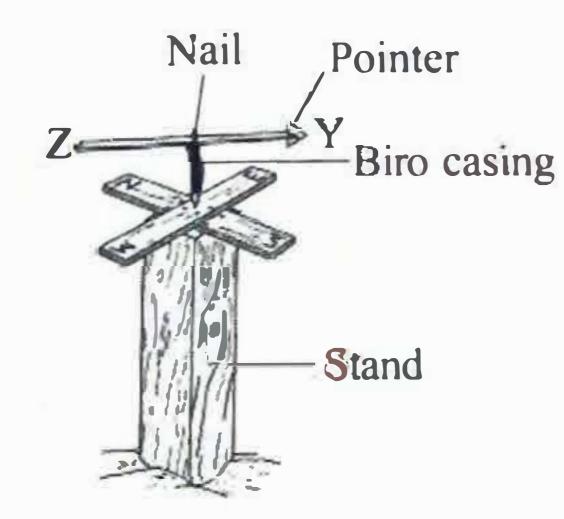
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- 43. Which one of the following methods of grazing is recommended for a farmer who wants to keep many animals on his farm?
 - A. Herding.
 - B. Tethering.
 - C. Paddocking.
 - D. Zero-grazing.
- 44. Which one of the following is an adaptation for hopping and leaping animals?
 - A. Long and strong hind limbs.
 - B. Streamlined bodies.
 - C. Short and muscular front legs.
 - D. More weight on the front legs.
- 45. Which one of the following groups of animals consist only of invertebrates?

- 47. Which one of the following is a source of heat?
 - A. Mirror. B. Moon. C. Firefly. D. Star.
- 48. In a certain investigation on sound energy, a teacher rang a bell, and then whistled as the pupils listened. Which one of the following was being investigated?
 - A. Types of sounds.
 - B. Special sounds.
 - C. Sound pollution.
 - D. Direction of sound.
- 49. Which one of the following occurs as a result of reflection?

- A. Salamander, newt, toad.
- B. Tilapia, scorpion, grasshopper.
- C. Snail, crab, spider.
- D. Fly, bat, mosquito.
- The diagram below shows a wind vane 46. that was constructed by pupils.



The wind vane will **not** work properly because

- A. Apparent bending of a ruler in water.
- B. Formation of shadow by objects.
- C. Formation of a rainbow.
- D. Seeing objects.
- Which one of the following is not a 50. reason for mulching?
 - A. Prevent soil erosion.
 - B. Prevent loss of moisture.
 - C. Avoid strong sunlight
 - D. Control growth of weeds.

A. of using the nail as a pivot B. part Z is smaller than part Y C. compass direction is below the pointer D. of using the biro casing at the top.

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