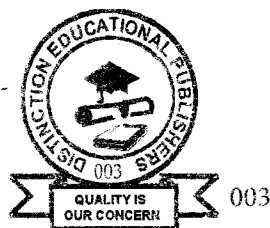
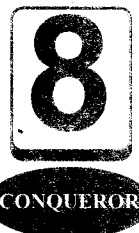


DISTINCTION KCPE CONQUEROR



003

STANDARD EIGHT - 2023



KCPE PREDICTION CONQUEROR

SCIENCE

TIME: 1HR 40MINS

READ THESE INSTRUCTIONS CAREFULLY

1. You have been given this question booklet and a separate answer sheet. The question paper 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. Make sure you have written on the answer sheet.
YOUR INDEX NUMBER
YOUR NAME
NAME OF YOUR SCHOOL
6. By drawing a dark line inside the correct numbered boxes mark your full Index Number (i.e. School Code Number and the three-figure Candidate's Number) in the grid near the top of the answer sheet.
7. Do not make any marks outside the brackets [].
8. Keep the sheet as clean as possible and **DO NOT FOLD IT**.
9. For each of the questions 1-50 four answers are given. The answers are lettered **A,B,C,D**. In each case only **ONE** of the four answers is correct. Choose the correct answer.
10. On the answer sheet the correct answer is to be shown by drawing a dark line inside the box in which the letter you have chosen is written.

Example:-

In the question paper.

4. Which one of the following is NOT a controlled method of grazing?

- A. Zero grazing
- B. Strip grazing
- C. Herding
- D. Tethering

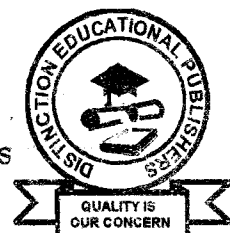
The correct answer is **C. (Herding)**.

On the answer sheet

4. [A] [B] [**C**] [D] **14.** [A] [B] [C] [D] **24.** [A] [B] [C] [D] **34.** [A] [B] [C] [D]

In the first set, the box with the letter **C** printed in it is marked.

11. Your dark line **MUST** be within the brackets.
12. For each question **ONLY ONE** bracket is to be marked in each of four brackets



This Question Paper consist of 8 printed pages.

1. Which one of the following diseases is a child immunized against 0yrs, $1\frac{1}{2}$ months, $2\frac{1}{2}$ months and $3\frac{1}{2}$ months after birth?

A. Yellow fever
B. Poliomyelitis
C. Measles
D. Tuberculosis

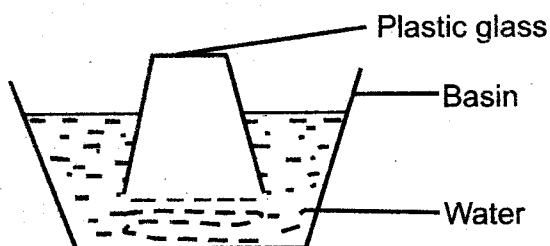
2. The following diseases are correctly matched with their causes **except**

Disease	Cause
A. Gonorrhoea	Virus
B. Syphilis	bacteria
C. Genital Herpes	Virus
D. Chancroid	bacteria

3. Which one of the parts of the reproductive system have the same function?

A. Ovary and penis
B. Ovary and testis
C. Urethra and uterus
D. Uterus and cervix

4. A plastic glass was inverted over water in a basin as shown in the diagram below. It was observed that the water did not enter the glass.



Water can be made to enter the plastic glass by

- A. adding more water in the basin
B. reducing the size of the glass by cutting.
C. placing a heavy stone at the bottom of the glass
D. making a hole at the bottom of the plastic glass.

5. Which one of the following pairs of forms of energy can be transmitted in a vacuum?

A. Sound and electricity
B. Electricity and light
C. Heat and light
D. Light and sound

6. Which part of the human breathing system is involved in the exchange of gases?

A. Air sacs
B. Bronchus
C. Mouth
D. Nose

7. Which of the following groups of foods would provide nutrients suitable for a patient suffering from Rickets?

A. Irish potatoes, sugarcane, guavas, peas
B. Sweet potatoes, arrow roots, sorghum, oranges
C. Millet, liver, fish, milk
D. Spinach, cassava, mangoes, carrots

8. A pupil was walking towards the Southern direction past a hospital and noticed a windsock stretching to her left. In which direction was the wind blowing from?

- A. West B. North
C. East D. South

9. The following are signs and symptoms of diseases

i) **Violent diarrhoea**

ii) **Constipation**

iii) **Dehydration**

iv) **Blood in urine and faeces**

v) **Stomach pains**

Which signs and symptoms are for cholera

- A. ii, iii, v B. iii, iv, v
C. i, v, ii D. i, v, iii

10. Pupils from Mosoch primary school assembled the following materials.

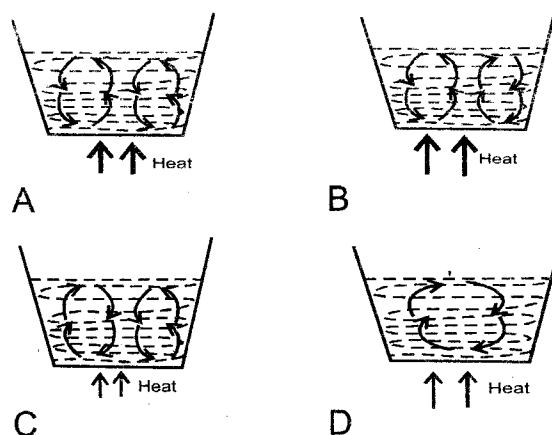
A mirror, clear water, a white sheet of paper and a basin. What were they **likely** to investigate?

- A. Apparent bending of light
B. Bouncing of light
C. Making a rainbow
D. Dispersion

11. The following are plants growing in wet area **except**

- A. baobab
B. butter cup
C. water lettuce
D. duck weed

12. Which of the diagram below shows convection as a method of heat transfer in liquids?



13. Which one of the following is a use of the component of air that makes **0.97%**?

- A. Used in burning
B. used in preserving soft drinks
C. Used by plants to make proteins
D. Used in electric bulbs

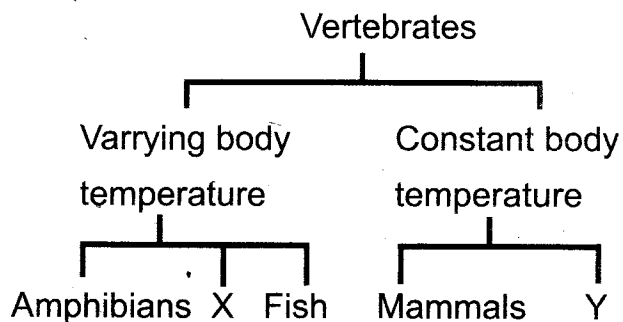
14. Which one of the following is **NOT** an effect of crop diseases?

- A. Reduced yields
B. Reduced quality produce
C. Increase cost of production
D. Stunted growth

15. The following are signs of ill health in livestock noticed immediately by the farmer **except**

- A. loss of weight
B. blood in stool
C. coughing
D. rough coat

16. The chart below shows a simple classification of vertebrates



The animals represented by **X** and **Y** respectively are

- | X | Y |
|-----------|-----------|
| A. Trout | Dove |
| B. Newt | Shark |
| C. Turtle | Eagle |
| D. Rat | Crocodile |

17. The following statements are **true** about simple machines except. They

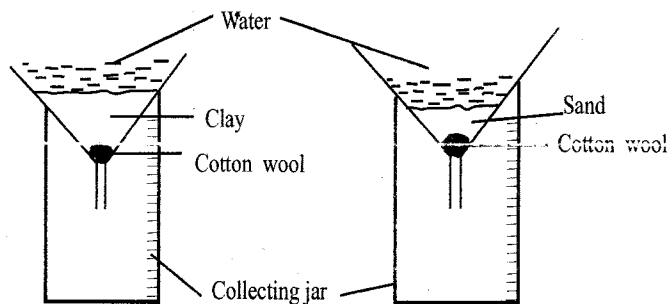
- A. reduce workdone
- B. increase effort distance
- C. reduce effort required
- D. help us to do work conveniently

18. Which one of the following electrical appliances is **NOT** used at home?

- A. Torch
- B. Refrigerator
- C. Electric iron
- D. Welding machine

19. Two pupils, Mwende and Njeru

wanted to find out the soil sample that retains more water. They added equal amounts of water to clay and sand. The set up was as shown in the diagram below



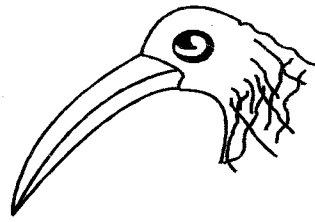
What mistakes did they make when setting the experiment?

- A. Using different amount of soils
- B. Using similar funnels
- C. Using collecting jars of different sizes
- D. Adding equal amounts of water

20. Which one of the following pairs consists of substances which have definite size?

- A. Steam and wax
- B. Wax and ink
- C. Flour and oxygen
- D. Glue and neon

21. Which one of the following consists of only characteristics of wind pollinated flowers?
- Brightly coloured petals, nectary, small in size
 - Large anthers, large feathery stigmas, light powdery pollen grains.
 - Green petals, anthers firmly attached to the filament, stigma hanging outside
 - Scented, large in size, dull in coloured
22. Which one of the following is **NOT** true about farm yard manure? it
- bind soil particles
 - improve air circulation in the soil
 - improve the ability of the soil to hold water
 - release nutrients very fast to the soil
23. Which one of the following components of the environment covers a large part of the earth's surface?
- Water
 - Air
 - Soil
 - Plants
24. Which one of the following effects of drug abuse consists of only health effects?
- Drug induced accidents and withdraw symptoms
 - Impaired judgement and truancy
 - Loss of consciousness and addiction
 - Rape and lack of concentration
25. The diagram below represents a beak of a certain bird

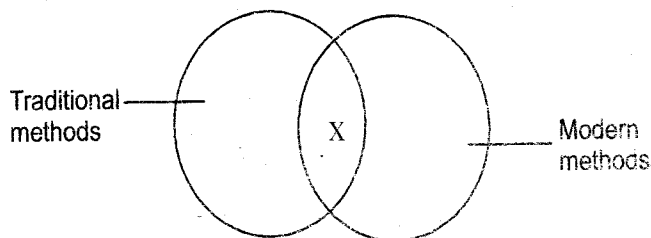


The bird represented is a

- fish eater
 - nectar feeder
 - grain eater
 - filter feeder
26. Which one of the following is **most likely** reason why some pregnant mothers crave for soil? To
- provide sufficient mineral salts
 - increase breast milk production after giving birth
 - help in digestion of food
 - provide sufficient iron
27. Insectivorous plants grow in areas
- containing enough water
 - lacking nitrogenous salts
 - lacking water
 - containing enough flies
28. Which one of the following is **not** a way of storing water?
- Dams
 - Pots
 - Jerry can
 - Pipes

29. Which one of the following describe soil texture?
- The way the soil drains water.
 - The way water remain in the soil.
 - The coarseness and smoothness of soil
 - The rising and dropping of water in the soil

30. The following are methods of food preservation. Which methods are in the part marked X



- use of low temperature, drying
- drying, canning
- salting, smoking
- freezing, drying

31. Which one of the following pairs of plant is **correctly** matched with their roots?

Fibrous

Tap

- | | |
|------------|-----------|
| A. Acacia | onion |
| B. Coconut | blackjack |
| C. Cabbage | maize |
| D. Cowpeas | sugarcane |

32. Which one of the following planets are in the 4th and 7th position from the sun?

- Earth and saturn
- Saturn and mars
- Uranus and jupiter
- Mars and uranus

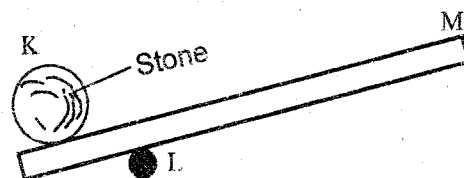
33. The following are methods of separating mixtures of solids only **except**

- picking
- winnowing
- filtering
- sieving

34. Which one of the following statements about a beam balance is **correct**? The hole for the pivot must be

- very small
- very wide
- on the left
- wide enough

35. The diagram below show a simple machine in use



To reduce the effort required to raise the stone the length between

- L and M is increased
- L and K is increased
- K and M is decreased
- L and M is decreased

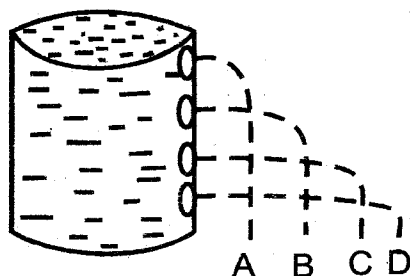
36. The following are factors to consider when comparing solubility of solids in a liquid **except**

- A. temperature of the solute
- B. size of the container used
- C. amount of the solvent
- D. amount of the solute

37. Which one of the following **cannot** be used to reduce the force that opposes motion?

- A. Retreading
- B. Streamlining
- C. Greasing
- D. Smoothing

38. The diagram below shows an experiment carried out by std 4 pupils to investigate pressure in liquids



What was their correct observation?

- A. Pressure in liquids decrease with increase in depth
- B. Pressure in liquids is the same at all levels
- C. Pressure in liquids increase with increase in depth.
- D. Pressure in liquids is exerted in all directions

39. Which one of the following groups of animals feeds help the animals in the body building?

- A. Lucern, oats
- B. Glycine, sunflower
- C. Nappier grass, sweet potato vines
- D. Desmodium, lucern

40. Which one of the following is an adaptation to animals that fly and swim?

- A. Streamlining
- B. Presence of wings
- C. Strong hind legs
- D. Webbed feet

41. Which one of the following is a reason why gaps are left in a railway line?

- A. To prevent rail users from shock
- B. To allow expansion and contraction
- C. For the train to move freely
- D. To reduce the speed of the train

42. The following are practices for maintaining simple tools **except**

- A. Storing in a safe place
- B. Greasing
- C. Sharpening
- D. Cleaning after use

43. Newton is **not** a unit for

- A. weight
- B. force
- C. mass
- D. friction

44. Which of the following gases take the lowest percentage?

- A. Inert gases and carbon dioxide
- B. Inert gases
- C. Carbon dioxide and oxygen
- D. Nitrogen and oxygen

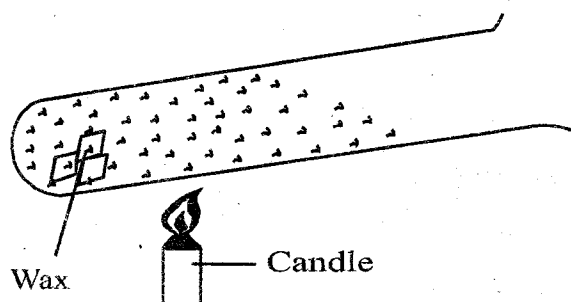
45. Which one of the following weather instruments is **wrongly** matched with its working principle

Instrument	Working principle
A. Windvane	Matter occupies space
B. Windsock	Matter occupies space
C. Raingauge	Matter occupies space
D. Air thermometer	Matter expand and contract

46. A boat made of metal floats in water while a nail sink due to its

- A. material
- B. weight
- C. size
- D. shape

47. The diagram below shows a set - up that can be used to investigate a certain property of matter



What was being investigated?

- A. Liquids are bad conductors of heat
- B. Water contains air
- C. Expansion and contraction of liquids
- D. Liquids contain organic matter

48. When the heart of a mammal contracts, blood in the left ventricle is forced out

- A. through the pulmonary artery
- B. into the left auricle
- C. through the aorta
- D. through the pulmonary vein

49. In which of the following are both materials **wrongly** grouped as non-magnetic and magnetic

Non-magnetic	Magnetic
A. Silver	Iron
B. Steel	copper
C. Aluminium	nickel
D. Zinc	cobalt

50. HIV/AIDS can be controlled by the following ways **except**

- A. campaigns through media
- B. creating public awareness
- C. mass education
- D. keeping it secret among members