KCPE NOVEMBER 2023 PREDICTION MASTER CYCLE 10 51600610

035713655





KENYA NATIONAL PREDICTION TESTS KCPE

516006

SCIENCE

Time: 1 hour 40 minutes

INSTRUCTIONS TO CANDIDATES (Please read these instructions carefully)

- 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. Make sure that you have written on the answer sheet:

YOUR INDEX NUMBER YOUR NAME NAME OF YOUR SCHOOL

- 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 boxes.
- 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 and D. In each case only **ONE** of the four answers is correct. Choose the correct answer.
- 10. 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.

- 5. Which one of the following components of blood is involved in clotting after an injury?
 - A. White blood cells.
 - B. Red blood cells.
 - C. Plasma.
 - D. Platelets.

The correct answer is D.

On the answer sheet:

5. TAT TBT COTE 15. TAT TBT COTED 25. TAT TBT COTED 35. TAT TBT COTED 45. TAT TBT COTED

In the set of boxes numbered 5, the box with the letter **D** printed in it is marked.

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





This question paper consists of 8 printed pages.

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Which one of the following is not needed when making a rainbow? A. Basin B. Sprayer C. Torch D. Water 2. Which one of the following components of environment is found in all other components? A. Air B. Water C. Soil D. Plants 3. The following are communicable diseases except B. Tuberculosis A. Polio C. Malaria D. Tetanus Which one of the following is a use of force that opposes motion? A. Wear and tear B. Skating C. Heating of machines D. Oiling 5. Which crop below is odd out? A. Oats B. Beans D. Maize C. Wheat Which one of the following is a plant adapted to a dry area? A. Acacia B. Butter cup C. Stinging nettle D. Sugarcane Study the diagram below 7.

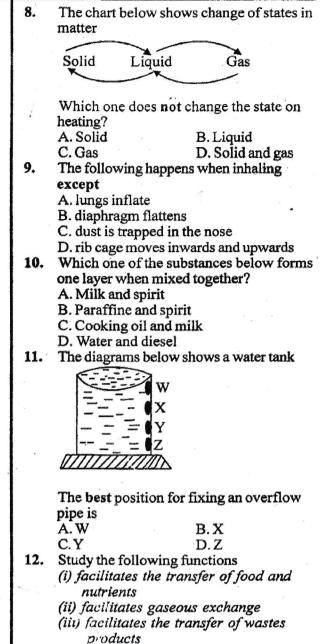
What happens in the place marked X?

B. Parturition

D. Ovulation

A. Fertilization

C. Implantation



(iv) prevent mixing of mother's blood

and that of the foetus

The above function are for:

A. Amniotic

B. Umbilical cord

C. Placenta

D. Uterine wall

13. Which one of the following is a condition necessary for both germination of seed and photosynthesis?

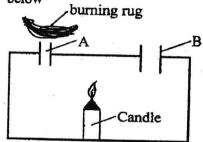
A. Sunlight

B. Temperature

C. Oxygen

D. Moisture

14. Pupils in std 6 set up the experiment below



The experiment did not work, which mistake did they make?

A. The convectional box is too small

B. They did not put a third chimney

C. They did not place the candle below chimney B

D. They did not place the candle below chimney A

15. The following are sources of current electricity except

A. hydro-electric generators

B. dynamo

C. dry cells

D. petrol

16. Which tools below is not used in maintenance of other tools?

A. Pliers

B. File

C. Screw driver

D. Knife

17. The diagram below represents a certain beak of a bird



The bird is

A. grain eater

B. filter feeder

C. flesh eater

D. nectar feeder

18. Which one of the following groups of materials consists of magnetic materials?

A. Aluminium, zinc, copper

B. Copper, iron, silver

C. Silver, iron, cobalt

D. Nickel, cobalt, steel

19. The brightest planet is

A. venus

B. mars

C. jupiter

D. mercury

20. What is the meaning of hallucinations in relation to drug and substance abuse?

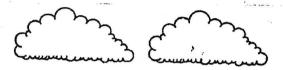
A. illegal drugs

B. narcotic drugs

C. legal drugs

D. drugs that makes abuser to see and hear imaginary things

21. The diagram below shows a certain type of clouds



The clouds above indicate

A. heavy down pour

B. fine weather

C. dry season

D. thunderstorms and lightning

22. Which one of the following sexually transmitted diseases is not caused by bacteria?

A. HIV and AIDS

B. Gonorrhoea

C. Chancroid

D. Syphilis

23. Which one of the following is not a characteristics of soil that cracks when dry?

A. It is a heavy soil

B. Suitable for constructing fish ponds

C. Easily waterlogged

D. Well aerated

24. What is force?

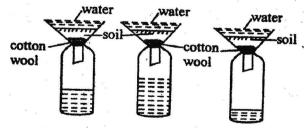
A. A pull or a push

B. A lift

C. newton

D. inertia

25. Std 5 pupils carried out the experiment below.



Which soil above is mixed with cement for construction?

A.M

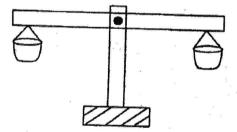
B.N

C. P

D. M and P

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- 26. Water in the farm can be used in the following ways except
 - A. mixing chemicals
 - B. irrigation
 - C. fishing
 - D. watering animals
- 27. Which one of the following adaptatation in xerophytes does not help in water preservation?
 - A. Few leaves
 - B. Leaves reduced dto spines
 - C. Deep wide spread roots
 - D. Thick cuticles
- 28. Which one of the following is not a safety measure against lighting?
 - A. Fitting lighting arrestors on tail building
 - B. Wearing shoes with thick rubbers soles when in pools
 - C. Avoid touching switches with wet hands
 - D. Lie flat on the ground when lighting strike
- The plant with bread leaves and air sacs 29. grow in
 - A. water
- B. dry area
- C. sandy area
- D. wet area
- The diagram below shows a beam balance



The working of this machine is similar to

- A. spring balance
- B. ruler
- C. wheelbarrow
- D. See saw
- 31. Four pupils ate their different foods as follows

Tamara - ugali, milk, kales.

Kennedy - mango, cabbage, apple.

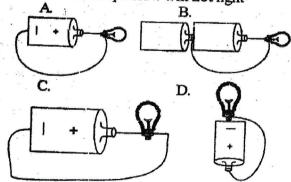
Salome - fish, beans, chicken.

Damaris - bread, chapati, chips.

Who ate a diet suitable for a person suffering from Kwashiorkor?

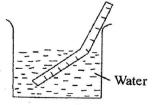
- A. Tamara
- B. Kennedy
- C. Salome
- D. Damaris

- Class 5 pupils heated water in a tin which was half full, after boiling they put a lid and poured cold water on it, the tin can collapsed inwardly, what led to the observation?
 - A. expansion of the water
 - B. expansion of the tin
 - C. sudden expansion of the tin
 - D. air pressure
- 33. The following is a list of animals and their products, which one is wrongly matched
 - A. Sheep wool and milk
 - B. Goat mutton and mohair
 - C. Cow beef and hide
 - D. Pig pork and bacon
- Rotational grazing is practised in all the following ways except
 - A. tethering
- B. herding
- C. strip
- D. paddocking
- 35. Karis stated the following characteristic of states of matter
 - (i) had definite mass
 - (ii) had definite size
 - (iii) had no definate shape
 - The matter above is likely to be
 - A. salt
- B. toothpaste
- C. air
- D. stone
- 36. The following are reasons for food preservation. Which one is not?
 - A. to avoid wastage
 - B. to sell when prices are favourable
 - C. to reduce the nutrient and flavour
 - D. keep for future use
- 37. A farmer preserved his animal feeds as follows
 - (i) cut and chopped into small pieces
 - (ii) store under airtight condition
 - (iii) compressed during preparation Which animal feed was he preserving
 - A. silage
- B. hav
- C. pasture
- D. commercial feeds
- Which set up below will not light 38.

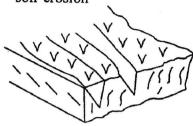


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- 39. The following are ways of conserving water, which one is not?
 - A. Harvesting rain water
 - B. Building dams
 - C. Drip irrigation
 - D. Keeping fish in a pond
- 40. Which one of the following is important for people living with HIV/AIDS?
 - A. Small quantities of food at regular intervals
 - B. Much sleep
 - C. A lot of body exercise
 - D. Large quantities of balanced diet at once.
- 41. The stages of HIV/AIDS infection occur as follows:
 - A. Asymptomatic → window → symptomatic → fullblown
 - B. Window → incubation → symptomatic → fullblown
 - C. Incubation → window → symptomatic → fullblown
 - D. Window → incubation → asymptomatic → fullblown
- 42. A thick waxy cuticle on a plant is an adaptation feature that helps
 - A. desert plants minimize evaporation of water
 - B. the aquatic plants to float on water
 - C. Prevent the water from standing on leaves of water plants
 - D. to prevent wild animals from browsing desert plants
- 43. The friction force can be reduced in the following ways except
 - A. streamlining bodies
 - B. using ball bearing
 - C. smoothening surfaces
 - D. using glue
- 44. What is the importance of top soil making compost manure.
 - A. Add nutrients to the compost
 - B. speed up the rate of decomposition
 - C. introduce decomposers
 - D. reduce the temperature
- 45. The set up below shows

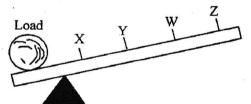


- A. reflection of light
- B. refraction of light
- C. diffusion of light
- D. splitting of white light
- **46.** The loudness or softness of sound is called
 - A. pitch
- B. echo
- C. vibration
- D. volume
- 47. The diagram below shows a certain type of soil erosion



It is best controlled by

- A. planting cover crops
- B. terracing
- C. making porous dam
- D. contour farming
- 48: Which one of the following does not increase the rate at which a substance dissolves in water?
 - A. increasing the temperature of solvent
 - B. stir the mixture
 - C. increase the size of the solute
 - D. heat the solute
- 49. The diagram below shows a lever in use



Inorder to use more effort, the effort position should be at point

- A.X
- B.Y
- C. W
- D.Z
- **50.** Which material have the following importances?
 - (i) provide privacy
 - (ii) a flow limited light in
 - (iii) cannot see clearly through
 - A. Opaque
 - B. Transparent
 - C. Transparent and opaque
 - D. Translucent material