
KENYA NATIONAL EXAMINATION COUNCIL

KCPE 2008

SCIENCE PAPER

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1. A card with the word **BRICK** written on it was placed in front of a mirror. Which one of the following shows how would appear in the mirror?

- A. **KIRB**
- B. **KCIRB**
- C. **BRICK**
- D. **KCIRB**

2. Absorption of water in the alimentary canal of human beings takes place in the

- A. Stomach
- B. Duodenum
- C. Small intestine
- D. Large intestine

3. Standard five pupils observed and grouped some small animals. Which one of the following animals were **CORRECTLY** grouped?

- A. Ant, tick, spider
- B. Beetle, moth, ant
- C. Spider, weevil, beetle
- D. Tick, moth, weevil

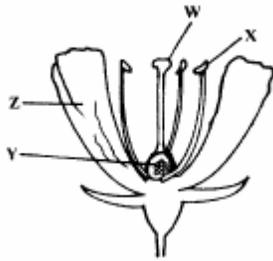
4. Which one of the following groups consists of non-flowering plants only?

- A. Moss, grass, pine
- B. Fern, algae, pine
- C. Moss, algae, cabbage
- D. Cabbage, grass, fern

5. Which one of the following statements about vertebrates is **TRUE**?

- A. Fish and amphibians have scales
- B. Amphibians and reptiles lay their eggs on land
- C. Fish and bird have constant body temperature
- D. Reptiles and birds lay fertilized eggs

6. The diagram below shows parts of a flower.



Which one of the labelled parts is NOT CORRECTLY matched with its function?

Part **function**

- A. W receives pollen grains
- B. X produces pollen grains
- C. Y develops into a seed after fertilization
- D. Z protects inner parts of a flower

7. Which one of the following parts of a maize grain is CORRECTLY matched with its function?

Part **function**

- A. Cotyledon protect inner parts
- B. Plumule develops into roots
- C. Endosperm store food
- D. Radicle develop into shoot

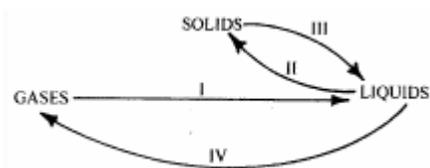
8. Which one of the following is NOT an excretory organ?

- A. Skin
- B. Lung
- C. Kidney
- D. Rectum

9. Which one of the following are the percentages of carbon dioxide and nitrogen in the air?

- A. 1% and 21%
- B. 0.03% and 78%
- C. 21% and 78%
- D. 0.03% and 1%

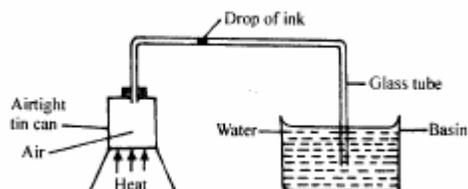
10. The processes I,II, III and IV in the chart below bring about changes in states of matter.



The processes that required increase in temperature are:

- A. III, IV
- B. I, II
- C. II, IV
- D. I, III

11. The diagram below show a set-up that was used to investigate a certain property of air.



Which one of the following would NOT be observed if the tin can was heated gently?

- A. Bubble in the basin
- B. Drop of ink moving towards water in the basin
- C. Water level in the basin decreasing when heating is stopped
- D. Water level in the glass tube decreasing when heating is stopped.

12. Which on of the factors will NOT affect sinking and floating of a material in water? The

- A. Mass of the material
- B. Type of the material
- C. Shape of the material
- D. Size of the material

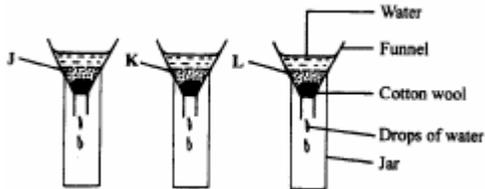
13. In which on of the following activities is friction LEAST needed?

- A. Writing
- B. Riding a bicycle
- C. Walking
- D. Using pulleys

14. Which one of the following statement about a single fixed pulley is TRUE? The effort

- A. Moves a shorter distance than the load
- B. And the load move the same distance
- C. Moves twice the distance the load moves
- D. Required is half the load

15. Standard five pupils added equal amount of water to three equal amounts of soil samples J,K and L in funnels as shown in the diagram below.



After 10 minutes the pupils measured the amount of water that had drained through each soil sample.

Soil sample	J	K	L
Amount of water collected (cm ³)	28	19	33

Which one of the following statements is a CORRECT conclusion from the results obtained?

- A. J has larger particles than L
 - B. K has larger particles than L
 - C. K has larger particles than J and L
 - D. L has larger particles than J and K
16. Which one of the following consists of magnetic materials only?
- A. Tin, aluminium, copper
 - B. Iron, steel, cobalt
 - C. Tin, iron, copper
 - D. Aluminium, steel, Cobalt
17. When breathing in the
- A. Diaphragm flattens
 - B. Lungs shrinks
 - C. Diaphragm becomes domes shaped
 - D. Volume of the chest decrease
18. Which one of the following LEAST conserves soil?

- A. Mulching
 - B. Planting cover crops
 - C. Contour ploughing
 - D. Terracing
19. A person intends to push a drum full of oil along an inclined plane on to a platform. Decreasing the slope of the inclined plane would
- A. Decrease effort applied
 - B. Decrease effort distance
 - C. Decrease load distance
 - D. Not effect the effort applied
20. Which of the following information is usually given when obtaining medicine from a pharmacy?
- A. Expiry date
 - B. Disposal method of containers
 - C. The dose
 - D. How to store the medicine
21. The following are tuber crops EXCEPT:
- A. Onion
 - B. Cassava
 - C. Arrowroot
 - D. Carrot
22. Whenn sand particles are put in a glass of cold water and heated at the bottom the particles are seen to rise and fall. This is because sand particles
- A. Are carried by hot water whichh comes down on cooling
 - B. Rise when heated and come down on cooling
 - C. Become lighter than water when heated
 - D. And water rise when heated and come down on cooling
23. Which one of the following shows the 4th and 7th plants from the sun?
- A. Venus, neptune

- B. Jupiter, saturn
- C. Mars, uranus
- D. Jupiter, uranus

24. Which one of the following shows the correct order of energy changes that take place when a bulb is connected to a dry cell to produce light?

- A. Chemical → heat → electrical → light
- B. Electrical → chemical → heat → light
- C. Chemical → electrical → heat → light
- D. Electrical → heat → chemical → light

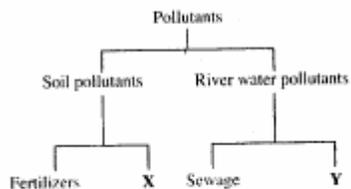
25. Which one of the following consists of only characteristics of insect pollinated flowers?

- A. Sweet scented, large number of pollen grains
- B. Brightly coloured petals, sticky pollen grains
- C. Light pollen grains, sweet scented
- D. Brightly coloured petal, light pollen grains

26. Which one of the following is NOT a source of light?

- A. Moon
- B. Firefly
- C. Star
- D. Sun

27. The chart below represented a simple classification of pollutants.



The pollutants represented by X and Y are

- | | |
|------------------|----------------|
| X | Y |
| A. Factory waste | Acid rain. |
| B. Herbicides | Oil spillage. |
| C. Oil spillage | Acid rain. |
| D. Herbicides | Factory waste. |

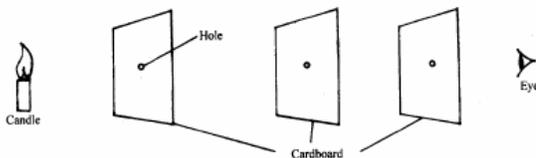
28. The MOST appropriate method of separating a mixture of sand and salt after addition of water is

- A. Decanting

- B. Filtering
 - C. Sieving
 - D. Evaporating
29. In which one of the following processes is oxygen NOT used?
- A. Making plant food
 - B. Burning
 - C. Breathing
 - D. Germination of seed
30. Which one of the following statements about HIV and AIDS is TRUE?
- A. People living with HIV and AIDS are thin
 - B. HIV and AIDS is a curse
 - C. Premarital sex is the only mode of transmission of HIV and AIDS
 - D. People living with HIV and AIDS are advised to eat small amount of food at a time
31. Which one of the following is NOT an essential constituent of commercial animal feeds?
- A. Water
 - B. Vitamins
 - C. Proteins
 - D. Carbohydrates
32. Which one of the following is likely to cause an increased growth of water plants in a nearby river? The presence of a
- A. Market center
 - B. Factory
 - C. Garage
 - D. Tea farm
33. A child with thin and brown hair, swollen hands, feet and face is also likely to
- A. Have knock knees
 - B. Appear weak and inactive
 - C. Have a face like an old person

- D. Have faster heart beats.
34. Which one of the following statements is NOT TRUE about manures? They
- A. Improve the ability of the soil to hold water
 - B. Bind soil particles
 - C. Release nutrients very fast to the soil
 - D. Improve air circulation in the soil
35. Which one of the following is a function of fibre in the diet?
- A. Helps in getting rid of undigested food
 - B. Helps in absorption of digested food
 - C. Adds nutrients to the body
 - D. Helps in digestion of food
36. Draining of stagnant water can prevent the spread of
- A. Cholera and typhoid
 - B. Bilharzia and malaria
 - C. Typhoid and malaria
 - D. Cholera and bilharzia
37. Which one of the following DOES NOT produce electricity?
- A. Bicycle dynamos
 - B. Batteris
 - C. Water dams
 - D. Solar panel
38. Which one of the following description of beaks would be for a bird tha most likely feed on nectar?
- A. Short and curved
 - B. Long and curved
 - C. Short and strong
 - D. Long and strainght
39. Which one of the following animals belongs to be same group as a weevil?
- A. Crab

- B. Mite
 - C. Spider
 - D. Termite
40. Which of the following statement is NOT CORRECT about a windsock?
- A. Is open at both ends
 - B. Gets filled with air and rises
 - C. Points to the direction from wind blows
 - D. Should placed in the open field
41. Which one of the following example of lever has the position of effort between the position of load and fulcrum when in use?
- A. Spade
 - B. Wheelbarrow
 - C. Claw hammer
 - D. Crow bar
42. The diagram below represents a set-up that is used to investigate a certain property of light.



The property investigated is that light

- A. Is refracted
 - B. Travel in a straight line
43. Which one of the following groups of sources of energy consistsof only renewable sources?
- A. Firewood, kerosene, waterfall
 - B. Wind, charcoal, biogas
 - C. Diesel, waterfall, wind
 - D. Biogas, kerosene, firewood

44. Which one of the following is NOT a reason for lighting a house?
- A. For safety purpose
 - B. To discourage pests
 - C. To feel warm
 - D. To read comfortably
45. The following are ways of maintaining tools EXCEPT:
- A. Cleaning after use
 - B. Greasing
 - C. Sharpening
 - D. Using them regularly
46. Which one of the following effect of drug abuse consists of only social effects?
- A. Theft and lack of concentration
 - B. Drug induced accidents and trauncy
 - C. Rape and withdrawal symptoms
 - D. Drug addiction and loss of consciousness
47. The presence of thick white and mountain shaped cloud are a sign of
- A. Heavy rainfalling soon
 - B. Low temparature
 - C. Fine weather
 - D. Strong winds blowing
48. A lactating mother needs foods rich in iron
- A. To protect the baby against disease
 - B. For the formation of strong bones in the baby
 - C. To increase milk production
 - D. To replace blood lost during birth
49. The component of soil that improves its water holding capacity is
- A. Minerals salts
 - B. Air

- C. Organic matter
- D. Living organisms

50. Which one of the following BEST describe the term environment?

- A. The surrounding of a mliving organism
- B. Where a living organism obtains food from
- C. Where a human being lives
- D.The home of a living organism