

1. Which of the following statements is **not** true about windvane?
- The tail should be larger than the arrowhead.
 - It should be placed in an open place.
 - The arrow points the direction in which the wind is blowing.
 - The compass points should correspond to the geographical compass points.

2. The function of platelets in blood is
- to clot blood
 - to kill germs
 - carry digested food
 - to transport oxygen
3. The type of teeth that are adapted to cutting food in human beings are
- | | |
|---------------|------------|
| A. incisors | B. canines |
| C. pre-molars | D. molars |

4. The diagram below shows parts of a maize seed



The part that stores food for the embryo is labelled

- | | |
|------|------|
| A. K | B. L |
| C. M | D. N |
5. Study this diagram below that represents the mammalian heart.



Which of the following statements is true?

- J carries blood into the heart whereas K takes it out.
- J has a thin wall whereas K has a thick wall.

- J carries deoxygenated blood whereas K carries oxygenated blood.
- J has valves whereas K has no valves.

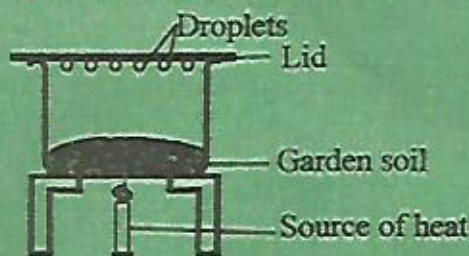
6. In which of the following parts of the alimentary canal does digestion of proteins take place?
- | | |
|-------------|---------------------|
| A. Mouth | B. Stomach |
| C. Duodenum | D. Small intestines |

7. Which one of the following is a similar physical change in boys and girls during adolescence?
- Change of voice
 - Broadening of hips
 - Menstruation
 - Wet dreams

8. The function of the rectum in the human digestive system is
- store undigested matter
 - absorb water and mineral salts
 - remove undigested matter
 - digest fats and oils

9. Which of the following does not constitute the controlled method of grazing?
- Herding
 - Zero grazing
 - Paddocking
 - Tethering

10. The std. 6 science teacher led his pupils to carry out the following experiment to investigate a certain property of soil



What was the class investigating? There

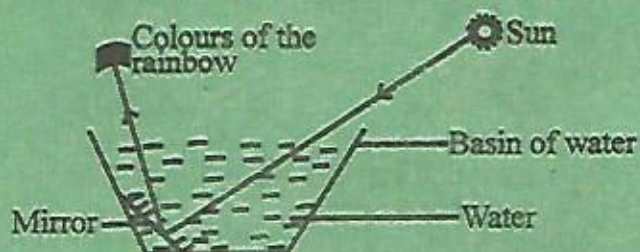
- is air in soil
- water in soil
- are small living organisms in the soil
- is humus in the soil

11. The following are stages of HIV infection but not in their correct order
- Asymptomatic
 - Window
 - Symptomatic
 - Full blown

Which of the following shows the correct order?

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

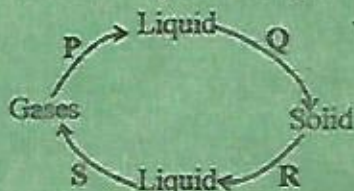
12. Std. 6 pupils set up the following experiment to investigate a certain property of light.



They later saw seven colours forming on the surface as shown above. The aim of the above experiment was to show the formation of the rainbow through

- A. dispersion B. refraction
C. diffraction D. reflection

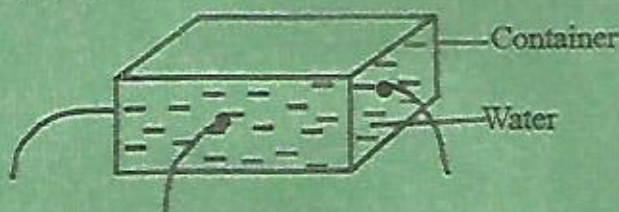
13. The following are changes of state.



Which of the above labelled changes require an increase in temperature?

- A. P and Q B. Q and R
C. S and P D. S and R

14. Pupils of std. 4 in vine yard Academy carried out an experiment on liquids as shown below.



The aim of the experiment was to show that

- A. liquids exert pressure in all directions
B. pressure in liquids depends on depth
C. pressure in liquids is equal at the same depth
D. liquids exert pressure

15. Std. 4 pupils were learning about weather and the sky. They made the following observations about clouds

Enock : He saw low-lying grey clouds.

Yvonne: She saw round flat-bottomed cotton like balls.

Mellanie: She saw a halo.

Joel: He saw clouds that spread over a large area that looked smooth.

Who among the pupils saw cumulus clouds?

- A. Enock B. Yvonne
C. Mellanie D. Joel

16. Which is the unit of measuring weight?

- A. Kilogram B. Newton
C. Centimetre D. Kilometre

17. Which of these is not a way in which plants depend on animals?

- A. Carbondioxide B. Support
C. Nutrients D. Pollination

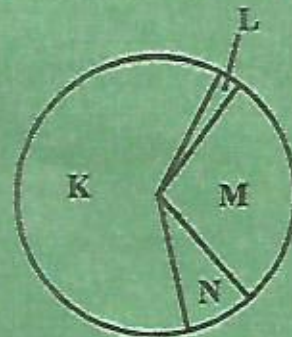
18. Which one of the following is a function of the largest component of blood?

- A. Combine with oxygen
B. Transport oxygen
C. Clot blood
D. Carry digested food

19. Which of these statements is true about HIV/AIDS?

- A. All HIV positive people have AIDS.
B. During window period a person may test negative.
C. It can be transmitted through shaking hands.
D. It is not spread during asymptomatic phase

20. The pie chart below shows composition of air.



Which of the above labelled gases is used to manufacture proteins in leguminous plants?

- A. K B. L
C. M D. N

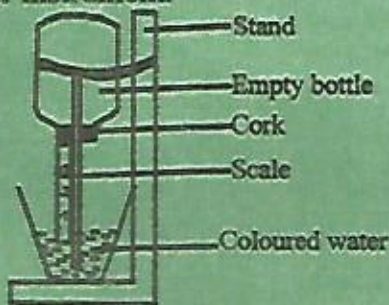
21. Which one of the following lists consists of foods that help in protecting the body against diseases?

- A. Meat, orange, spinach
- B. Lemon, cabbage, carrot
- C. Maize, potatoes, rice
- D. Beans, groundnuts, fish

22. In human reproductive system, which organs are responsible for producing sex cells?

- A. Ovary and uterus
- B. Testis and penis
- C. Ovary and testis
- D. Penis and vagina

23. The diagram shown below represents a weather instrument.



What mistake can be seen in this instrument?

- A. Closing the mouth of the bottle
- B. Using little amount of water
- C. Having the container carrying water open
- D. Having the scale reading from bottom

24. Which of the following consists of a pair of field pests only?

- A. White ants and aphids
- B. Rats and moles
- C. Stalkborer and cutworms
- D. Rats and weevils

25. Which of the following is a natural way of lighting a house?

- A. Using hurricane lamp
- B. Using an electric lamp
- C. Using a candle
- D. Using a translucent roof

26. The soil texture, soil drainage and soil capillarity have one thing in common in that they all depend on the

- A. amount of water in the soil
- B. organic matter in the soil
- C. amount of mineral particles in the soil
- D. size of the soil particles

27. Which of these drugs are legal in Kenya but harmful to the body of the user?

- A. Tobacco, Khat, Alcohol
- B. Tobacco, Cocaine, Heroin
- C. Bhang, Mandrax, Heroin
- D. Khat, Cocaine, Mandrax

28. The diagram below shows parts of a flower.



Which of the labelled parts protects the flower when it is young?

- A. W
- B. X
- C. Y
- D. Z

29. Which of the following animals parasites cannot be easily controlled by spraying or dusting the animal with a chemical?

- A. Fleas
- B. Tse tse fly
- C. Tick
- D. Mites

30. Which of the following set of levers below are in the same order as the claw hammer?

- A. Shovel
- B. Spade
- C. Wheelbarrow
- D. Crowbar

31. In which of the following instances is water used again?

- A. Using unclean water from the kitchen for watering flowers in a flower garden
- B. Collecting rainwater after a heavy downpour
- C. Boiling and distilling dirty water to obtain clean water
- D. Storing water in dams to be used in sprinkle irrigation

32. Class six pupils were studying properties of air. They set up the following experiment.



Which one of the following would finally happen?

- A. There would be an increase in the amount of air in the glass
- B. Amount of carbon dioxide in the glass will decrease
- C. Pressure in the glass will increase
- D. Water will enter the glass jar

33. Which of the following mixtures cannot be separated by dissolving, filtering and evaporation?

- A. Salt and sugar
- B. Maize flour and sugar
- C. Sand and sugar
- D. Chalk powder and salt

34. *Grass* → *Grasshopper* → *Chicken* → *Hawk*
In the above food chain, the grasshopper is a
A. producer
B. primary consumer
C. secondary consumer
D. tertiary consumer
35. Which of the following statements does not describe conservation of the environment?
A. Banning illegal hunting of animals
B. Building porous dams
C. Dumping vegetable and other kitchen refuse in the shamba
D. Cooking with biogas instead of kerosine
36. Which of the following is an example of a nitrogenous fertiliser?
A. Blood meal
B. Bone meal
C. Basic slag
D. Single superphosphate
37. Which of these statements is true for both ducks and salamanders? Both
A. have a constant body temperature
B. have scales in their bodies
C. breath by means of lungs
D. lay eggs in water
38. Which of these materials are not magnetic?
A. Sewing needle
B. Steel wool
C. Piece of glass
D. Staple pin
39. Which one of the following consists of a pair of green non-flowering plants?
A. Fern and toadstool
B. Mucor and moss
C. Cedar and pine
D. Mushroom and toadstool
40. The purpose of using ball bearings and rollers to move a load is to
A. increase the force required to push the load.
B. reduce the force that stops the movement of the load.
C. make the load lighter.
D. control the direction of movement of the load.
41. Which type of erosion is soil eroded in thin uniform layers without being noticed?
A. Rill
B. Sheet
C. Gulley
D. Splash
42. In the vaccination schedule for infants, a child is given a vaccine against measles at
A. birth
B. 4 weeks
C. 10 weeks
D. 9 months
43. Which of the following minerals is needed to build strong teeth and bones?
A. Calcium
B. Iron
C. Iodine
D. Vitamins
44. During breathing in, the diaphragm moves
A. downwards and the ribs move outwards and upwards.
B. downwards and the ribs move inwards and downwards.
C. upwards and the ribs move outwards and upwards.
D. upwards and the ribs move inwards and downwards.
45. Which of the following methods of heat transfer takes place in liquids?
A. Conduction
B. Convection and radiation
C. Convection only
D. Radiation
46. The drugs given to cure known diseases are called
A. stimulants
B. analgesics
C. vaccines
D. antibiotics
47. Which of the animal feeds is a rich source of proteins?
A. Clover
B. Sweet potato vines
C. Kales
D. Oats
48. Which of the following consists of cereal crops only?
A. Oats, rice, wheat
B. Wheat, millet, soya
C. Barley, beans, groundnut
D. Peas, rice, wheat
49. Which one of the following forms part of the embryo of a seed?
A. Endosperm
B. Plumule
C. Cotyledon
D. Testa
50. Which one of the following diseases can be prevented by wearing gloves, gumboots and other protective clothings?
A. Cholera
B. Dysentery
C. Bilharzia
D. Malaria