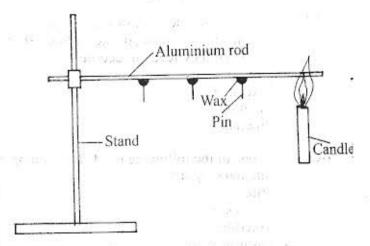
- 1. Which one of the following components, of blood is involved in clotting after an injury?
  - A. Plasma: 5/70 mashin missing the
  - B. White blood cells and protection
  - C. Red blood cells. In some manufacture
  - D. Platelets. And the transporter form
  - 2. Which one of the following shows the CORRECT order of blood flow in the heart?
    - A. Vena cava → pulmonary artery → pulmonary vein → aorta.
    - B. Pulmonary artery → vena cava → pulmonary vein → aorta.
  - C. Pulmonary vein → aorta → pulmonary artery -> vena cava.
    - D. Aorta → pulmonary vein → vena cava → pulmonary artery.
    - 3. Which one of the following pairs consists only of social effects of drug abuse?
      - A. Rape and truancy.
        - B. Lack of concentration and addiction.
        - C. Accidents and withdrawal.
      - D. Impaired judgement and loss consciousness.
    - Which one of the following statements is TRUE about the incubation stage of HIV infection?
      - A. If HIV test is carried out, the result is negative.
      - B. This is the first stage of infection.
- C. There are no visible signs.
  - D. The body cannot fight diseases.
  - 5. Which one of the following is NOT a CORRECT statement about a foetus?
    - Receives oxygen through placenta,
- B. The blood of the mother and that of the foetus mix. har example service
  - C. Receives food substances from the mother's blood.
  - D. Waste products are removed through the placenta.
  - 6. Which one of the following pairs of infections consists only of those that are sexually transmitted?
  - A. Chancroid and HIV.
    - B. Gonorrhoea and Bilharzia.
    - C. Syphilis and Typhoid.
      - D. Gonorrhoea and Tuberculosis.

- 7. A ruler placed slanting and partially immersed in water appears bent because light
  - A. from that part of the ruler under water is
  - B. from that part of the ruler under water is refracted
  - C. from that part of the ruler under water is scattered
  - D. travels in a straight line in the same medium.
- The diagram below represents a set-up that can be used to demonstrate a certain aspect of heat.



The aspect demonstrated is that

- A. solids melt when heated
- B. metals expand when heated
- C. solids conduct heat
- D. metals bend when heated.
- Which one of the following is a storage pest? 9:
  - A. Weaverbird.
  - B. White ant.
  - C. Cutworm.
  - D. Aphid.
- 10. Which one of the following stores food in the same part of the plant as Irish potato?
  - A. Carrot.
  - B. Sweet potato.
  - C. Sugarcane.
  - D. Cassava.
  - The embryo of a seed is made up of
    - A. plumule and testa
    - B. cotyledon and plumule
    - C. radicle and plumule
    - D. cotyledon and radicle.

- 12. The following are some characteristics of certain animals:
  - (i) hody covered with scales
  - (ii) lav eggs
  - (iii) body temperature varies with the surroundings
  - (iv) breathe through lungs.

Which one of the following pairs of animals has ALL the characteristics listed?

- A. Turtle and shark.
- Lizard and no toise.
  Tilopic and frog.
- the proceedite and platypus.
- 13, Which one of the following is the main constituent of a balanced diet obtained by any mals when they feed on lucerne?
  - -- A Carbohydrates.
    - .. Protein.
    - Vitamins.
    - . Minerals.
- 14. Which one of the following is NOT an example of rotational grazing?
  - . Strip.
  - 2. Paddocking.
  - C. Tethering.
  - 1). Herding.
- 15. The following are activities carried out when modelling the solar system, but not in their correct order.
  - (i) Draw circles on manilla paper to show
  - (ii) Model the planets and the sun using clay
  - (iii) Put name tags on models of planets and the
  - (iv) Fix models of planets to orbits and the model of the sun at the centre
  - (v) Paste manilla paper on soft board.

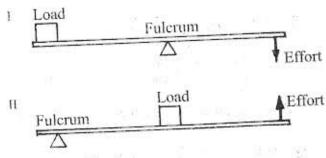
Which one of the following is the CORRECT order in which the activities are carried out?

- A. (i) (iii) (ii) (iv) (v).
- B (i) (iii) (ii) (v) (iv).
- (ii) (iv) (iii) (i) (v).
- D. (ii) (v) (i) (iv) (iii).

- 16. The following are some uses of components of
  - (i) manufacture of electric bulbs
  - (ii) supporting burning
  - (iii) manufacture of soft drinks
  - (iv) germination of seeds
  - (v) putting out fires.

Which of the uses are for carbon dioxide?

- A. (i) and (ii).
- B. (ii) and (iv).
- C. (iii) and (v).
- O. (iii) and (iv).
- 17. A certain machine, when in use, can work with load, effort and fulcrum at different positions as shown in the diagrams I and II.



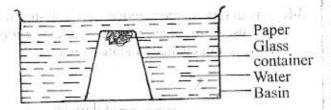
The machine is a

- A. wheelbarrow
- B. crowbar
- C. spade
- D. clawhammer.
- 18. The following are methods of separating mixtures:
  - (i) picking
  - (ii) filtering
  - (iii) decanting
  - (iv) sieving.

Which two methods are suitable for separating a mixture of water and sand?

- A. (i) and (iii).
- B. (i) and (iv).
- C. (ii) and (iii).
- D. (ii) and (iv).
- 19. Which one of the following is a CORRECT food chain?
  - A. Grass → Rabbit → Eagle → Leopard.
  - B. Maize → Grasshopper → Lizard → Snake.
  - C. Grass → Grasshopper → Eagle → Rabbit.
  - D. Kales → Aphid → Weaverbird → Rabbit.

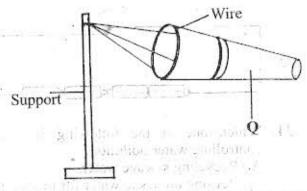
- 20. When pieces of paper are dropped above a fire they rise. This is because
  - A. heat makes the paper lighter than air
  - B. paper expands when heated
  - C. hot air carries the paper upwards
- D. heat from the fire carries the paper upwards.
  - The diagram below represents a set-up that was used to demonstrate a certain property of matter.



The property demonstrated was,

- A. air occupies space
- B. water exerts pressure
- C. air has mass
- D. water occupies space.
- 22. Which one of the following materials allows light to pass but one cannot see through it clearly?
  - A. Frosted glass.
  - B. Mirror.
  - Ch. Clean water.
  - D. Milk.
- 23. Which one of the following is the BEST method of managing plastic waste?
  - A. Burning.
  - B. Burying.
  - Recycling.
  - D. Reusing.
- 24. Which one of the following diseases can be prevented by wearing gumboots and gloves?
  - A. Typhoid.
  - B. Malaria.
  - C. Bilharzia.
  - D. Cholera.
- 25. Which one of the following practices is an advantage to the soil?
  - A. Ploughing across the contours.
  - B Disposal of vegetable refuse.
  - C. Burning of crop remains.
  - D. Use of herbicides,

- 26. Which one of the following DOVS NOT explain why an improved jiko conserves energy? It has
  - A. a cone shape
  - B. walls made of clay
  - C. a small space for holding charcoal
  - D. an outer cover made of metal.
- 27. In which one of the following is work made easier by changing the direction of force applied?
  - A. Ladder.
  - B. Flag post.
  - C. Staircase.
  - D. A road winding up a hill.
- 28. Which one of the following groups of foodstuffs constitutes a balanced diet?
  - A. Potatoes, beans, eggs.
  - B. Chicken, cabbage, beans.
  - C. Rice, chapatti, beef.
  - D. Peas, ugali, spinach.
- The diagram below represents a windsock constructed by pupils.



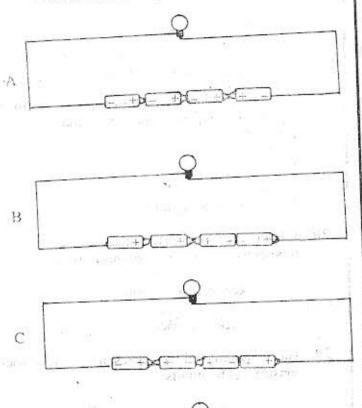
A suitable material that can be used to make the part labelled Q is

TO DESCRIPTION

and the state of

- A. sheet of metal
- B. manilla paper
- C. polythene sheet
  - D. piece of mosquito net.

30. In which one of the following circuit diagrams will the bulb not light?



- 31. Which one of the following is a way of controlling water pollution?
  - A. Recycling sewage water.
  - B. Reusing domestic water for irrigation.
  - C. Storing water in dams.

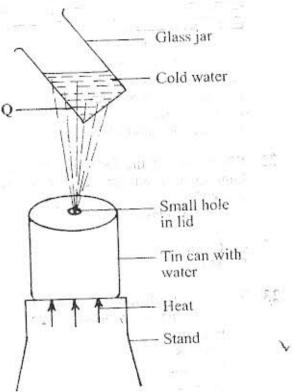
D

- D. Using water sparingly: 551
- 32. The MAIN reason why a baby needs to be breastfed by the mother is that the milk produced
  - A. helps to build the baby's immunity
  - B. helps the baby to grow fast
  - C. helps the baby's bones to be strong
  - D. is easily digested.

- 33. The following are features of certain types of clouds:
  - (i) white in colour
  - (ii) appear like hundles of cotton
  - (iii) dark grey in colour
  - (iv) mountainous in shape.

Which pair of features are for nimbus clouds?

- (i) and (ii).
- B; (i) and (iv).
- C. (ii) and (iii).
- D. (iii) and (iv).
- 34. The diagram below represents a set-up that can be used to demonstrate certain processes involved in change of state of matter.



The process that takes place at point labelled Q

- A. hoiling
- 13. condensation
- ( evaporation
- D. freezing.
- 35. Which one of the following activities can be used to demonstrate rill erosion?

Pouring water

- A. at different positions of a slanting soil surface
- B. in channels of soil on a slanting surface
- on a flat surface of soil
- 1), on a flat surface using a tin with many holes.

- i. Which one of the following pairs consists only, of materials that are non-magnetic?
  - Copper and aluminium.
  - B. Steel and zinc.
  - C. Silver and steel.
  - D. Iron and aluminium.
- Which one of the following activities will make an aluminium foil that was floating on water
  - Increasing amount of water.
  - B. Rolling the aluminium foil into a tube.
  - C. Making holes on the aluminium foil.
  - D. Crushing the aluminium foil into a ball.
- 8. Which one of the following ways of improving soil fertility will take the longest time for plants to get nutrients? When using
  - A. compost manure
  - B. compound fertilizer
  - C. farmyard manure
  - D. green manure.
- Pupils felt a sample of soil with their fingers. This activity was done to investigate
  - A. soil texture
  - B. presence of water in the soil
  - C. soil capillarity
  - D. presence of small animals in the soil.
- Which one of the following is NOT a practice for maintaining simple tools?
  - A Oiling.
  - B. Using them for the right purpose.
  - C. Sharpening.
  - D. Storing in a safe place.
- 41. Newton is a unit for
  - A. mass
  - B. force
  - C. pressure
  - D. volume.
- 42. Which one of the following pairs consists of only animals that have webbed feet?
  - A. Turkey and crocodile.
  - B. Kingfisher and flamingo.
  - C. Hippopotamus and toad.
  - D. Frog and duck.

43. Corrugated iron sheets can be damaged when they come into contact with 11 (25 VIII) \$1 (10 PPS) ...

griffs de Nord

- A. oil spills
- B. herbicides
- C. industrial gases
- D. dust.
- 44. The MAIN reason why black jack weed should be uprooted from a vegetable farm when they are still young is
  - A. because it is easy to uproot the weed
  - B. to avoid loss of soil nutrients
  - C. to reduce loss of water
  - D. to control the spread of the weed.
- 45. Which one of the following is a modern method of preserving food?
  - A. Canning.
  - B. Salting.
  - C. Smoking.
  - D. Drying.
- 46. The following are activities involved in demonstrating that light travels in a straight line:
  - (i) Light a candle and place it at the opposite end of the cardboards
  - (ii) Thread a string through the holes
  - (iii) Observe the candle through the holes
  - (iv) Make a hole at the same level in the three cardboards
  - (v) Cut three similar squares of cardboard and fix each cardboard to a piece of wood.

Which one of the following is the correct order of activities? -

- A. (v), (i), (iv), (iii), (ii).
- B. (v), (iv), (ii), (i), (iii).
- C. (v), (i), (iv), (ii), (iii).
- D. (v), (iii), (iv), (ii), (i).
- 47. Which one of the following groups consists only of cash crops?
  - A. Maize, tea, yams.
  - B. Arrow roots, groundnuts, cotton.
  - C. Bananas, Irish potatoes, sorghum.
  - D. Sunflower, sisal, coffce.
- 48. The purpose of using rollers to move a load is
  - A. increase the force required to push the load
  - B. reduce the force that hinders movement of the load
  - C. make the load lighter
  - D. control the direction of the movement of the

- 49. Which one of the following is TRUE about heat transfer by convection?
  - It takes place in
  - A. solids only
  - B. liquids and gases
  - C. gases only
  - D. solids and gases.

50. The chart below represents a simple classification of liquids.

