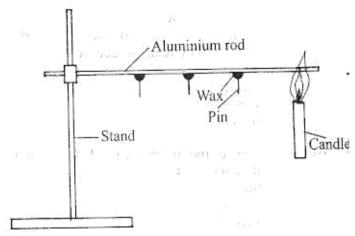
- Which one of the following components, of blood is involved in clotting after an injury?
 - A. Plasma: Spar as state of the second sparse
 - B. White blood cells and the same
 - C. Red blood cells.
 - D. Platelets.
- Which one of the following shows the CORRECT order of blood flow in the heart?
 - 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 of consciousness.
- 4. 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?
 - A. Receives oxygen through placenta,
 - B. The blood of the mother and that of the foetus mix.
 - C. Receives food substances from the mother's blood.
 - D. Waste products are removed through the placenta.
- 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.

- A ruler placed slanting and partially immersed in water appears bent because light
 - A. from that part of the ruler under water is reflected
 - 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.
- 9: Which one of the following is a storage pest?
 - 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.
- 11. 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
 - the with (iii) body temperature varies surroundings
 - (ivi) reathe through lungs.

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

- a. Turtle and shark.
- B. Lizard and to toise.
 Titopic and frog.
- the crocodile and platypus.
- 13, which one of the following is the main constituent of a balanced diet obtained by germals when they feed on lucerne?
 - -_/_ Corbohydrates.
 - Protein.
 - \(\forall \text{itamins.}\)
 - Minerals.
- 14. Which one of the following is NOT an example of rotational grazing?
 - , Strip.
 - Paddocking.
 - C. Tethering.
 - . 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 orbits
 - (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.

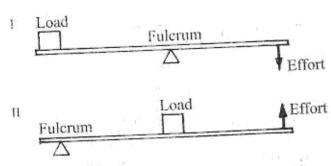
Which one of the following is the CORRECT order in which the activities are carried out?

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



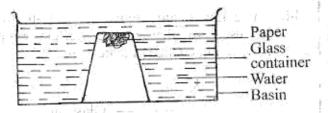
The machine is a

- 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 \rightarrow Grasshopper \rightarrow Lizard \rightarrow Snake.
 - C. Grass → Grasshopper → Eagle → Rabbit.
 - D. Kales → Aphid → Weaverbird → Rabbit.

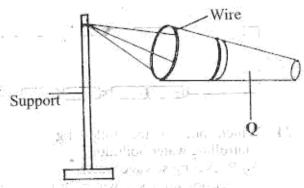
- 20. When pieces of paper are dropped above a fire they rise. This is because
 - A. heat makes the paper lighter than air
 - B. paper expands when heated
 - C. hot air carries the paper upwards
 - D. heat from the fire carries the paper upwards.
- 21. The diagram below represents a set-up that was used to demonstrate a certain property of 41 ... 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.
 - C. Clean water.
 - D. Milk
- 23. Which one of the following is the BEST method of managing plastic waste?
 - A. Burning.
 - B. Burying.
 - C. 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.

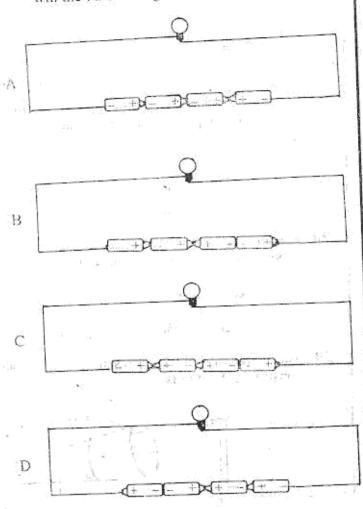
- 26. Which one of the following DOES 19601 explain why an improved jike conserves energy? It has
 - A. a cone shape
 - B. walls made of clay
 - C. a small space for holding charcoat
 - D. an outer cover made of metal.
- 27. In which one of the following is work made easier by changing the direction of force applied?
 - A. Ladder.
 - B. Flag post. s----
 - C. Staircase.
 - D. A road winding up a hill.
- 28. Which one of the following groups of foodstuffs constitutes a balanced diet?
 - Potatoes, beans, eggs.
 - B. Chicken, cabbage, beans.
 - C. Rice, chapatti, beef.
 - D. Peas, ugali, spinach.
- 29. The diagram below represents a windsock constructed by pupils.



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

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

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

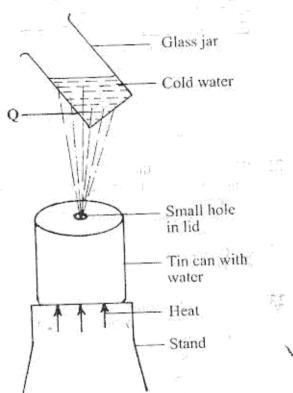


- 31. Which one of the following is a way of controlling water pollution?
 - A. Recycling sewage water.
 - B. Reusing domestic water for irrigation.
 - C. Storing water in dams.
 - D. Using water sparingly:
- 32. The MAIN reason why a baby needs to be breastfed by the mother is that the milk produced
 - 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 bundles 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).
- (; (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 15

- 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
- B. in channels of soil on a slanting suchee
- 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?
 - A. Copper and aluminium.
 - B. Steel and zinc.
 - Silver and steel.
 - D. Iron and aluminium.
- 7. Which one of the following activities will make an aluminium foil that was floating on water sink?
 - Increasing amount of water.
 - 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.
- 19. 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.
- 40. 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 A. oil spills
B. herbicides

gain a thinklean

- 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
 - 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
 - (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 eash crops?
 - A. Maize, tea, yams.
 - B. Arrow roots, groundnuts, cotton.
 - C. Bananas, krish potatoes, sorghum.
 - D. Sunflower, sisal, coffee.
- 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 load.

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.

