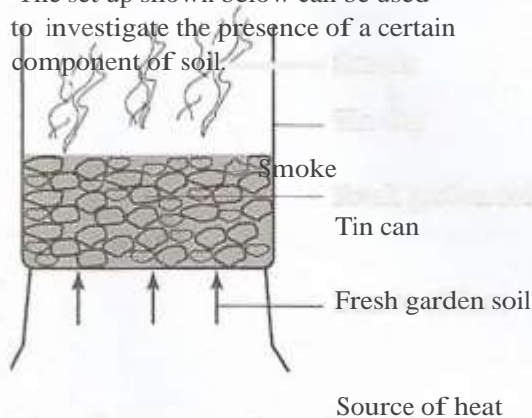


- Heat is transferred through a vacuum by
 - convection and conduction
 - convection only
 - conduction and radiation
 - radiation only.
- The **best** procedure of separating a mixture of sand, maize and salt is
 - picking, dissolving, filtering, evaporating
 - dissolving, filtering, picking, evaporating
 - picking, filtering, dissolving, evaporating
 - dissolving, decanting, picking, evaporating.
- To stop a moving object, the force applied should be
 - in the same direction as that of the moving object
 - opposite and less than that of the moving object
 - equal and in the opposite direction to that of the moving object
 - perpendicular and more than that of the moving object.
- The set up shown below can be used to investigate the presence of a certain component of soil.



The soil component investigated is

- organic matter
 - water**
 - air
 - mineral salts.
- Which of the following pairs of processes occurs when temperature decreases?

- Which one of the following animals has scales on its body?
 - Chameleon.
 - Whale.
 - Toad.
 - Newt.
- The **main** reason why mothers are encouraged to breast feed their infants is because breast milk
 - is free from disease causing germs
 - is at the right temperature for infants
 - boosts infant immunity
 - is easily digested by infants.
- Splash erosion can be prevented by
 - use of gabions
 - mulching
 - terracing
 - contour farming.
- Newton is the unit for measuring
 - weight
 - mass
 - volume
 - pressure.
- Soil that is good for modelling has
 - high water drainage
 - rough texture
 - high capillarity
 - large air spaces.
- The following are processes that take place during birth in humans
 - Dilation of the cervix
 - Contraction of the uterus
 - Bursting of the amniotic bag
 - Pushing out of the baby
 - Cutting of the umbilical cord
 Which of the following is the **correct** order of the processes?
 - (i), (iii), (ii), (iv), (v).
 - (), (**i**), (iv), (ii), (v).
 - (ii), (), (**ii**), (iv), (v).
 - (ii), (iv), (iii), (i), (v).

- A. Melting and condensation.
- B. Freezing and melting.
- C. Contraction and evaporation.
- D. Freezing and condensation.

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12. A farmer practicing stall feeding is **likely** to feed animals on
- A. pasture and fodder
 - B. pasture and concentrates
 - C. fodder and concentrates
 - D. concentrates only.

13. Which of the following statements is **true** about Vena Cava? It carries
- A. deoxygenated blood
 - B. blood from the lungs
 - C. blood under high pressure
 - D. blood from the heart.

14. Which of the following materials are both opaque?
- A. Mirror and fresh milk.
 - B. Paper smeared with oil and frosted glass.
 - C. Fresh milk and frosted glass.
 - D. Mirror and paper smeared with oil.

15. Which **one** of the following pairs is a source of electricity?
- A. Dam and a dynamo.
 - B. Wind-driven turbine and a dam.
 - C. Torch and a dynamo.
 - D. Dry cell and a geothermal generator.

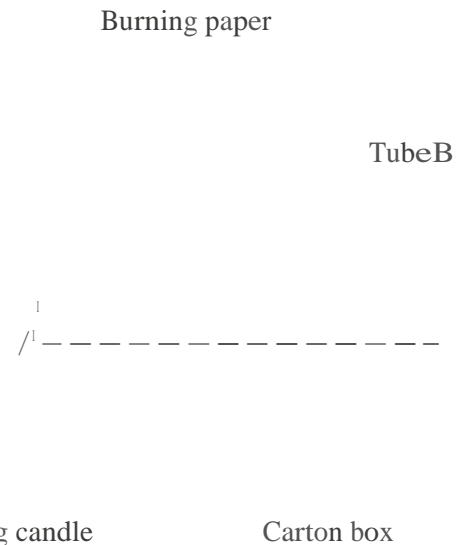
16. Which of the following statements is **true** about cumulus clouds?
- A. Their presence is a sign of rain.
 - B. Appear at low altitude and spread out in flat layers.
 - C. They are shaped like mountains.
 - D. They are dark grey in colour.

17. Which of the following planets are in the 2nd and 6th positions from the sun?
- A. Mars and Jupiter.
 - B. Venus and Saturn.
 - C. Earth and Saturn.
 - D. Venus and Jupiter.

19. Which of the following pairs of objects is **correctly** classified into magnetic and non-magnetic?

Magnetic	Non-magnetic
A. Glass sheet	Tin can.
B. Steel needle	Pencil lead.
C. Copper coin	Steel wool.
D. Razor blade	Staple pin.

20. The diagram below represents a set-up that is used to demonstrate a certain aspect of matter



18. In which of the following pairs of levers is the load, effort and fulcrum **likely** to be in similar positions when in use?
- A. Crowbar and claw hammer.
 - B. Wheelbarrow and spade.
 - C. Crowbar and spade.
 - D. Claw hammer and wheelbarrow.

20. A flower growing in a hot water bath is likely to be much as

The aspect investigated is

A. radiation

B. convection

C. conduction

D. expansion.

21. The following are uses of some components of air:

20. Which of the following pairs of objects is correctly classified as insulators and conductors?

(i) germination

(ii) preserving soft drinks

(iii) electric bulbs

(iv) burning.

Which two uses are for the component that makes up 21 % of air?

A. (i) and (iii).

B. (ii) and (iii).

C. (i) and (iv).

D. (ii) and (iv).

21. Which of the following materials are both good conductors and good insulators?

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- A. Glass and brick walls
- B. Paper covered with a coat, heated glass
- C. Steel wire and brick walls
- D. Glass and paper covered with a coat

22. Which one of the following is a good conductor of electricity?

- A. Iron and a copper wire
- B. Wood and a plastic wire
- C. Steel and copper
- D. Paper and a plastic wire

23. Which of the following materials is a good conductor of electricity?

- A. Wood and a copper wire
- B. Paper and a plastic wire
- C. Steel and copper
- D. Paper and a plastic wire

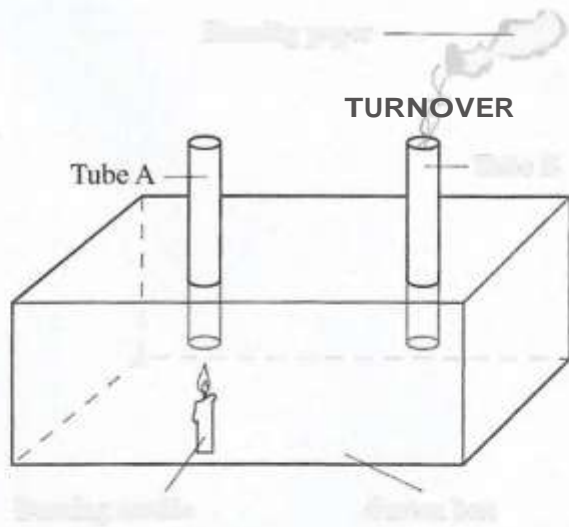
24. Which of the following plants are the best at growing in a hot water bath?

- A. Iron and a copper wire
- B. Paper and a plastic wire
- C. Steel and copper
- D. Paper and a plastic wire

25. Which of the following pairs of objects is correctly classified as insulators and conductors?

- A. (i) and (iii)
- B. (ii) and (iii)
- C. (i) and (iv)
- D. (ii) and (iv)

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The aspect investigated is

- A. radiation
- B. convection
- C. conduction
- D. expansion

26. The following are uses of some components of air:

- (i) germination
- (ii) preserving soft drinks
- (iii) electric bulbs
- (iv) burning

Which two uses are for the component that makes up 21% of air?

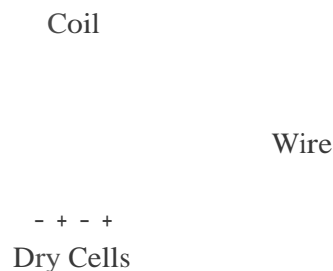
- A. (i) and (iii)
- B. (ii) and (iii)
- C. (i) and (iv)
- D. (ii) and (iv)

22. A pupil was walking towards the northern direction past an air strip and noticed a windvane pointing to her right. In which

direction was the wind blowing from?

- A. East.
- B. South.
- C. North.
- D. West.

23. The diagram below represents a simple electromagnet.



Which of the following energy transformations occur in the electromagnet?

- A. Electrical → Magnetic → Chemical.
- B. Chemical → Magnetic → Electrical.
- C. Chemical → Electrical → Magnetic.
- D. Magnetic → Chemical → Electrical.

24. Vaccines given at birth protect an infant against

- A. diphtheria and tuberculosis
- B. tuberculosis and poliomyelitis
- C. tetanus and diphtheria
- D. whooping cough and poliomyelitis.

25. Farmers apply farm yard manure to the soil to

- A. improve soil structure
- B. release nutrients needed by plants immediately
- C. provide specific nutrients
- D. provide nutrients in right amounts.

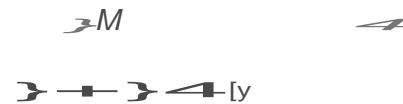
26. Which pair of plants stores food in the roots?

- A. Sweet potato and carrot.

27. Which of the following groups of food crops is **correctly** classified into cereals, legumes and fruits?

Cereals	Legumes	Fruit
A. Peas	Millet	Orange.
B. Apple	Green grams	Beans.
C. Rice	Ground nuts	Pawpaw.
D. Wheat	Banana	

28. The diagram below shows some parts of a flower.

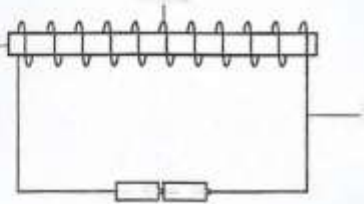


- B. Irish potato and arrow root.
- C. Carrot and Irish potato.
- D. Onions and cassava.

28. A girl was walking towards the sunset. She was holding a stick vertically in her right hand. In which direction was the wind blowing from?
- East
 - West
 - South
 - North

The parts representing the stigma and filament are

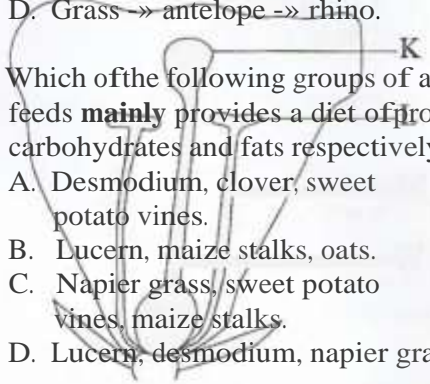
A Iron rod
K
a
n
d
L
B
L



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29. Which of the following groups of food chain is correctly described? (10 marks)
- Grass -> grasshopper -> goat
 - Maize -> mice -> snake
 - Sunflower -> butterfly -> rabbit
 - Grass -> antelope -> rhino

30. Which of the following groups of animal feeds mainly provides a diet of proteins, carbohydrates and fats respectively?
- Desmodium, clover, sweet potato vines
 - Lucern, maize stalks, oats
 - Napier grass, sweet potato vines, maize stalks
 - Lucern, desmodium, napier grass



31. Which of the following groups of food chain is correctly described? (10 marks)
- Grass -> grasshopper -> goat
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 - Lucern, maize stalks, oats
 - Napier grass, sweet potato vines, maize stalks
 - Lucern, desmodium, napier grass

31. Which of the following groups of foods would provide nutrients suitable for a child suffering from kwashiorkor?
 A. Sorghum, carrots, sweet potatoes, deworming.
 B. Oranges, Irish potatoes, sugar cane, of animals.
 C. Beef, peas, milk.
 D. Mangoes, arrowroots, spinach.
32. Bilharzia can be prevented by
 A. boiling water before drinking
 B. wearing gumboots when walking in stagnant water
 C. draining stagnant water from around the homestead
 D. covering latrines after use.
33. Which of the following uses of water are recreational only?
 A. Transport, cleaning, swimming.
 B. Cleaning, boat racing, mixing chemicals.
 C. Swimming, fishing, boat racing.
 D. Fishing, transport, mixing chemicals
34. Which of the following statements about bottle, HIV infected persons is **correct**?
 Infected persons
 A. can only be taken care of by health tap workers
 B. need to visit hospitals for cure
 C. should be provided with a balanced diet
 D. should be discouraged from playing with others.
35. Excessive use of herbicides and pesticides placed affect the soil by reducing the
 A. number of animals in the soil
 B. nutrients in the soil
 C. humus content in the soil
 D. water retention in the soil.
36. Which of the following parts of the human products breathing system are both involved in according to the cleaning, wanning and moistening air?
 A. Diaphragm and trachea.
 B. Lungs and diaphragm.
37. Which of the following pairs of livestock parasite control methods can control liver flukes?
 A. Rotational grazing and
 B. Dipping and spraying
 C. Rotational grazing and spraying of animals.
 D. Deworming and dipping.
38. In which of the following are the characteristics of solids and liquids **correctly** matched?

Solids	Liquids
A. Definite volume	Definite shape.
B. No definite volume	Definite
C. Definite volume	No definite shape.
D. No definite shape	Definite volume.
39. Which of the following groups of objects consists of **only** objects that would sink in water?
 A. Piece of chalk, steel needle,
 B. Nail, piece of glass, stone.
 C. Bottle top, nail, cork.
 D. Piece of chalk, plastic polythene bag.
40. The following are reasons for fitting a near the bottom of a tank **except**
 A. making gravitational force to act on water
 B. making water to flow faster
 C. to increase pressure
 D. to let all the water out.
41. The **main** reason why murram is on roads is to
 A. absorb rain water
 B. make the roads last longer
 C. increase grip with tyres
 D. make the roads more attractive.
42. Which of the following groups of are **correctly** classified farm animals producing

Cattle	Sheep	Goats
A. Dairy	Beef	Wool.

- C. Nose and lungs.
- D. Trachea and nose.

- | | | |
|-----------|--------|--------|
| B. Beef | Dairy | Wool. |
| C. Mutton | Wool | Dairy. |
| D. Beef | Mutton | Dairy. |

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TURNOVER

43. The following processes are involved in the formation of a zygote in plants:

- (i) Growth of pollen tube
- (ii) Pollination
- (iii) Fusion
- (iv) Pollen tube breaks.

The correct order of the processes is

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

44. Which of the following **only** consists of energy giving foods?

- A. Lemon and honey.
- B. Butter and coconut.
- C. Eggs and fish.
- D. Bread and pineapple.

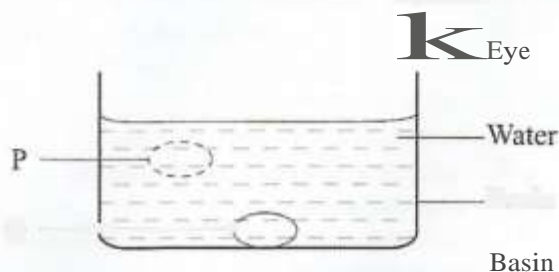
45. Which of the following statements describes soft water? Soft water

- A. is clear and clean
- B. requires a lot of soap for washing
- C. is safe for drinking
- D. is water that has been boiled.

46. In an activity to investigate mixing of liquids, liquid P mixed with liquid Q. Liquid R did not mix with Liquid P and Q. Liquid R mixed with cooking oil. Which one of the following **correctly** represents liquids P, Q and R?

P	Q	R
A. Water	Milk	Kerosene.
B. Kerosene	Water	Milk.
C. Milk	Kerosene	Water.
D. Water	Kerosene	Milk.

47. The diagram below represents a set up used to demonstrate a certain property of light.



Q —————

Which one of the following statements is **correct** about the set up? Light is

- A. refracted from P to the eye
- B. reflected from Q to the eye
- C. refracted from Q to the eye
- D. reflected from P to the eye.

48. Which one of the following pairs of materials will pollute soil?

- A. Saw dust and artificial fertilizer.
- B. Plastics and artificial fertilizer.
- C. Wood ash and saw dust.
- D. Plastics and iron filings.

49. In a certain investigation pupils used a straight pipe to observe a candle flame. They then bent the pipe and observed again.

Which aspect of light was being investigated?

- A. Formation of shadows.
- B. Uses of light.
- C. Sources of light.
- D. How light travels.

50. A pupil was blindfolded and asked to listen as a bell was rang from different positions.

Which aspect of sound was being investigated?

- A. Direction of sound.
- B. Effects of sound pollution.
- C. Loud and soft sounds.
- D. Meaning of special sounds.

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