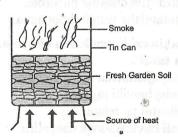
SCIENCE

- 1. Heat is transferred and through a vacuum by
 - A. convection and conduction B. convection only
 - C. conduction and radiation D. radiation only.
- 2. The best procedure of separating a mixture of sand, maize and salt is
 - A. picking, dissolving, filtering, evaporating
 - B. dissolving, filtering, picking, evaporating
 - C. picking, filtering, dissolving, evaporating
 - D. dissolving, decanting, picking, evaporating
- 3. To stop a moving object, the force applied should be
 - A. in the same direction as that of the moving object

 - B. copposite and less than that of the moving object equal and in the opposite direction to that of the
 - moving object
 - D. perpendicular and more than that of the moving object.
- 4. The set up shown below can be used to investigate the presence of a certain component of soil.



The soil component investigated is

- A. organic matter
- B. water

C. Air

- D. mineral salts.
- 5. Which of the following pairs of processes occurs when temperature decreases?
 - A. Melting and condensation.
 - B. Freezing and melting.
 - C. Contraction and evaporation.
 - D. Freezing and condensation.
- 6. Which one of the following animals has scales on its
 - A. Chameleon. B. Whale. C. Toad. D. Newt.
- 7. The main reason why mothers are encouraged to breast feed their infants is because breast milk
 - A. is free from disease causing germs
 - B. is at the right temperature for infants
 - C. boosts infant immunity
 - D. is easily digested by infants.

- 8. Splash erosion can be prevented by
 - A. use of gabions B. mulching
- - C. terracing
- D. contour farming.
- 9. Newton is the unit for measuring
 - A. weight B. mass C. volume D. pressure.
- 10. Soil that is good for modeling has
 - A. high water drainage B. rough texture
 - C. high capillarity
- D. large air spaces.
- 11. The following are processes that take place during birth in humans
 - (i) Dilation of the cervix
 - (ii) Contraction of the uterus
 - (iii) Bursting of the amniotic bag
 - (iv) Pushing out of the baby
 - (v) Cutting of the umbilical cord

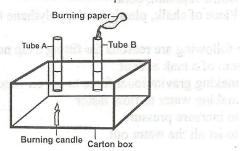
Which of the following is the correct order of the processes?

- A. (i), (iii), (ii), (iv), (v). B. (i), (iii), (iv), (ii), (v).
- C. (ii), (i), (iii), (iv), (v). D. (ii), (iv), (iii), (i), (v).
- 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
 - 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.
- 18. In which of the following pairs of levers to the load, effort and fulcrum likely to be in similar positions when in use?
 - A. Crowbar and claw hammen
 - B. Wheelbarrow and spade
 - C. Crowbar and spade,
 - D. Claw hammer and wheelbarrow.
- 19. Which of the following pairs of objects is correctly classified into magnetic and non-magnetic?

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

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

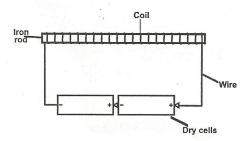


The aspect investigated is

- A. radiation
- B. convection
- C. conduction
- D. expansion.
- 21. 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.

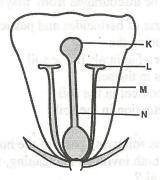


Which of the following energy transformations occur in the electromagnet?

- A. Electrical Magnetic
- Chemical.
- B. Chemical Magnetic
- → Electrical.→ Magnetic.
- C. Chemical → Electrical 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.
 - B. Irish potato and arrow root.
 - C. Carrot and Irish potato.
 - D. Onions and cassava.
- 27. Which of the following groups of food crops is correctly classified into cereals, legumes and fruits?

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

28. The diagram below shows some parts of a flower



The parts representing the stigma and filament are

- A. K and L
- B. L and N
- C. K and M
- D. N and M.
- 29. Which of the following food chains is correct?
 - A. Grass → grasshopper → goat
 B. Maize → mice → snake
 - B. Maize ____ mice
 C. Sunflower ___ butterfly
- → rabbit

- D. Grass
- → antelope
- ___ rhino
- 30. Which of the following groups of animal feeds mainly provides a diet of proteins,
 Carbohydrates and fats respectively?
 - A. Desmodium, clover, sweet potato vines.
 - B. Lucern, maize stalks, oats.
 - C. Napier grass, sweet potato vines, maize stalks.
 - D. 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.
 - B. Oranges, Irish potatoes, sugarcane.
 - 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 latrifies after use.
- 33. Which of the following uses of water are recreational only?
 - A. Transport, cleaning, swimming.
 - B. Eleaning, boat racing, mixing chemicals.
 - C. Swimming, fishing, boat racing.
 - D. Fishing, transport, mixing chemicals.
- **34.** Which of the following statements about HIV infected persons is **correct?**Infected persons
 - A. can only be taken care of by health 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 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 breathing system are both involved in cleaning, warming and moistening air?

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- A. Diaphragm and trachea.
- B. Lungs and diaphragm.
- C. Nose and lungs.
- D. Trachea and nose.

- Which of the following pairs of livestock parasite control methods can control liver flukes?
 - A. Rotational grazing and deworming.
 - B. Dipping and spraying of animals.
 - 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. Definite shape.
- B. No definite volumeC. 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, cork.
 - B. Nail, piece of glass, stone.
 - C. Bottle top, nail, cork.
 - D. Piece of chalk, plastic bottle, polythene bag.
- **40.** The following are reasons for fitting a tap 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 placed on roads is to
 - A. absorbs 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 products are **correctly** classified according to the farm animals producing them?

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Cattle	Sheep	Goats
A. Dairy	Beef	Wool.
B. Beef	Dairy	Wool.
C. Mutton	Wool	Dairy.
D. Beef	Mutton	Dairy.

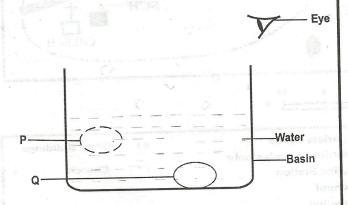
- **43.** The following processes are involved in the formation of a zygote in plants:
 - (i) Growth of pollen tube
 - (ii) Pollination
 - (iii) Fusion
 - (iv) Pollen tube breaks

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), (iii), (ii)
- 44. Which of the following only consists of energy giving foods?
 - A. Lemon and Foney.
 - B. Butter and coconut.
 - C. Eggsand 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, 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
Α.	Water	Milk	Kerosen
	Kerosene	Water	Milk.
	Milk	Kerosene	Water.
	Water	Kerosene	Milk.
	31 1 2 1 2 1 2 3 3 3 3 3		

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



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.