

CENTRAL ZONAL EXAM

STD 7 - TERM 3

SCIENCE

Time: 1 hour 40 mins

READ THESE INSTRUCTIONS CAREFULLY

1. Use only an ordinary pencil.
2. Make sure that you have written on the answer sheet:-
(I) YOUR NAME (II) NAME OF YOUR SCHOOL
3. For each question show the correct answer by drawing line in the brackets in which the letter you have chosen is written.

1. Which combination of diseases is immunization NOT given?

- A. Malaria, bilharzia and cholera
- B. Cholera, typhoid and tuberculosis
- C. Typhoid, diphtheria and Pertusis
- D. Poliomyelitis, diphtheria and tuberculosis

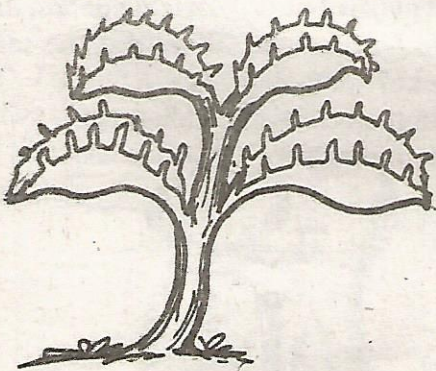
2. Among the safety measures undertaken when handling chemicals, which measures should not be taught to children?

- A. Insecticides should be clearly labelled
- B. Rooms should be sprayed when they are not in use
- C. To smell and taste chemicals
- D. Empty chemical containers should be discarded

3. A farmer noticed that his livestock were suffering from tapeworms. Which control measure could the farmer not practice in order to do away with them?

- A. Rotational grazing
- B. Dipping and spraying
- C. Deworming
- D. Rotational grazing and deworming

4. Below is a diagram of a carnivorous plant.



The plant traps insects by use of:-

- A. leaves
- B. flowers
- C. stem
- D. both leaves and flowers

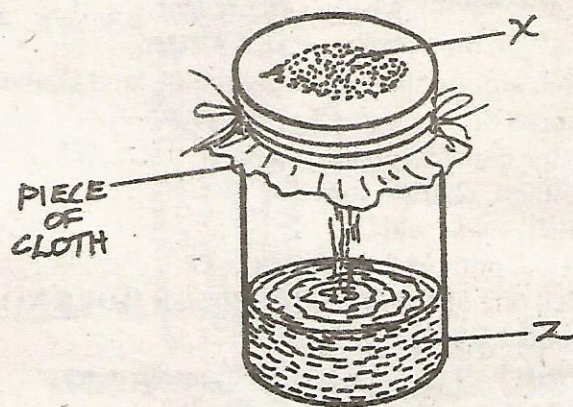
5. A child was observed having the following signs.

- (i) Develops brownish and thin hair
- (ii) Face, cheeks, stomach, arms and feet swells.
- (iii) Sores may appear at the corners of the mouth
- (iv) pot-belly stomach

The child was suffering from _____ due to lack of _____

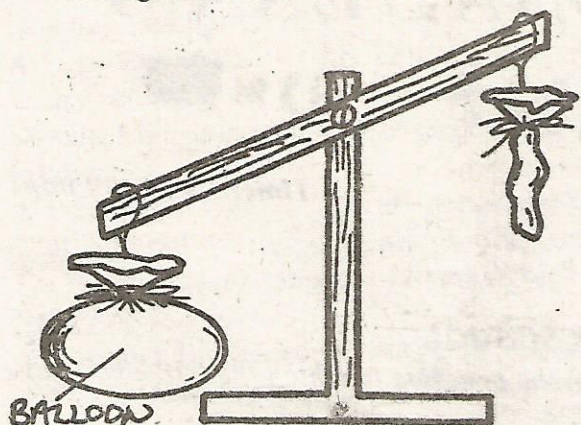
- A. Anaemia - Iron
- B. Scurvy - Vitamin
- C. Marasmus - All food nutrients
- D. Kwashiorkor - Proteins

6. Filtering is a method of separating mixtures. Label the parts X and Z in the diagram below.



- | | | |
|----|----------------|----------|
| | <u>X</u> | <u>Z</u> |
| A. | Filtrate | Residual |
| B. | Residual | Filtrate |
| C. | Sand particles | Water |
| D. | Solute | Solvent |

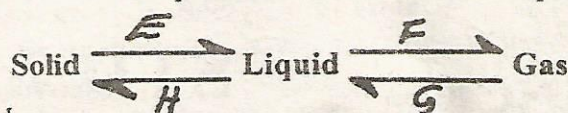
7. The diagram below is used to demonstrate that:-



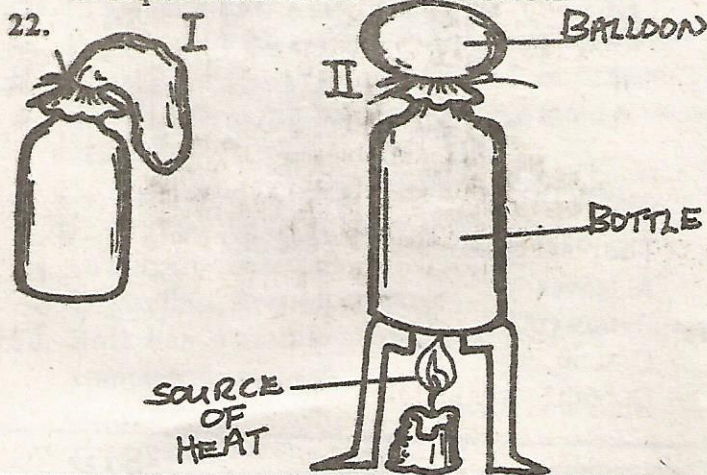
- A. air has weight
 B. air occupy space
 C. air have no definite shape
 D. air have no definite volume

8. Which is NOT a macronutrient?
 A. Nitrogen B. Potassium
 C. Phosphorous D. Zinc
9. Three of the following are social effects of drugs. Which one is NOT?
 A. Domestic violence B. Loss of memory
 C. Truant behaviour D. Road accidents
10. Which of the following groups of levers have the same positions of load, fulcrum and effort with the spade?
 A. Wheelbarrow, shovel, scissors
 B. Pliers, sweeping broom, bottle opener
 C. Jembe, coal tongs, fishing rod
 D. Coaltongs, nutcracker, door hinges
11. Which of the following gases is used by leguminous plants in a special way?
 A. Carbondioxide B. Oxygen
 C. Carbon monoxide D. Nitrogen
12. Which among the following list of food shows a balanced diet?
 A. Ripe bananas, ugali, cabbage
 B. Githeri, chapati, meat
 C. Fish, beans, ugali
 D. Rice, potatoes, cabbages
13. Which one of the following animals DOES NOT reproduce by laying eggs?
 A. Frog B. Spiny ant eater
 C. Whale D. Shark
14. The soil that has best drainage also has:-
 A. highest water retention
 B. lowest capillarity
 C. moderate soil particles
 D. fine soil particles
15. Which type of soil erosion is the top soil carried over a large area uniformly by either water or wind?
 A. Sheet erosion B. Gulley erosion
 C. Rill erosion D. Splash erosion

16. Which of the following pair of changes of state of matter takes place after a decrease in temperature?



- A. E and F B. F and G
 C. E and H D. H and G
17. Which among the following crops are WRONGLY grouped?
 A. Beverages - coffee and tea
 B. Oil crops - sunflower and carrots
 C. Cereals - sorghum and rice
 D. Legumes - green grams and cowpeas
18. In the food chain below, what would NOT happen if all eagles were killed?
Plants → Birds → Eagles → Bacteria
 A. Birds would increase
 B. Plants would decrease
 C. Birds would decrease
 D. Bacteria would increase
19. Which of the following crop pest is CORRECTLY matched with the damage it causes on crops?
 A. Aphids - bore holes and cut stems of young plants
 B. Stalkborers - eat grains
 C. Cut worms - suck juice from plants
 D. Weevils - make holes in stem and seeds
20. Standard four pupils made holes in different sides of a tin and then put water in the tin. What were they likely to be investigating?
 A. Liquids exerts pressure in all directions
 B. Pressure in liquids increase with depth
 C. Pressure in liquids decrease with height
 D. Water flows out in form of a jet
21. A class five pupil collected the following materials. Transparent plastic bottle collecting bottle, manila paper, paste / cello tape. What did the teacher intend to make?
 A. Air thermometer B. Rainauge
 C. Liquid thermometer D. Windsock



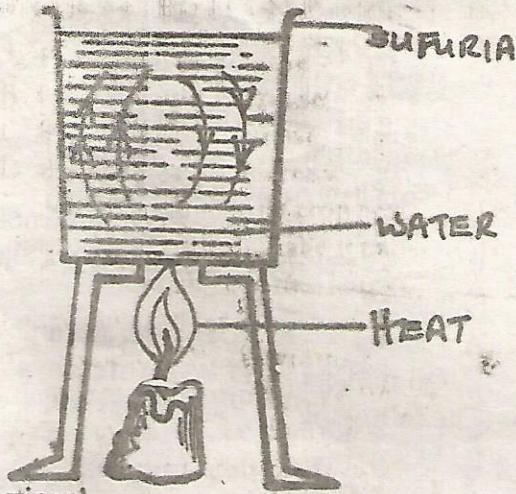
Pupils in class five set the above apparatus. In diagram I the balloon was deflated. After the heat was introduced the balloon inflated. What happened?

- A. Air expanded after heating
- B. The balloon was inflated
- C. The bottle expanded
- D. The balloon expanded

23. A class seven Science teacher was teaching the pupils precautions to take when there is thunder and lightening. She gave the following **EXCEPT**:-

- A. do not walk on pools of water
- B. do not carry sharp pointed objects
- C. shelter under trees
- D. wear shoes with rubber soles

24. Which method of heat transfer is illustrated in the diagram?



- A. Convectional
- B. Radiation
- C. Conduction
- D. Conduction and convection

25. The following are ways of reducing friction. Which one is **NOT**?

- A. Using rollers
- B. Stream lining
- C. Using lubricants
- D. Putting treads on shoes

26. The diagram below shows _____ teeth, used for _____



- A. Incisors - cutting and biting
- B. Molar - chewing and grinding
- C. Canines - tearing
- D. Premolars - chewing and grinding

27. The following are parts and functions of human digestive system. Which one is **NOT CORRECTLY** matched?

- | <u>Parts</u> | <u>Function</u> |
|--------------|---------------------------------------|
| A. Colon | - Absorb water and mineral salts |
| B. Tongue | - Forces boluses to the back of mouth |
| C. Stomach | - Produce digestive juices |
| D. Rectum | - Store digested food |

28. Which of the following shows physical changes in girls only?

- A. Shoulders and chest broaden, beards grow, voice becomes deep
- B. Pimples may appear, wet dreams starts, beards grow
- C. Hips broaden, breasts enlarge, menstrual flow begins
- D. Increase weight and height, shoulders broaden, Adam apple appear

29. Among the water uses, which one requires large body mass of water?

- A. Irrigation
- B. Swimming
- C. Drinking
- D. Transport

30. The following are ways into which water can be conserved.

- (i) Harvesting rainwater
- (ii) Recycling
- (iii) Mulching
- (iv) Re-using
- (v) Drip irrigation

Which method **DOES NOT** involve both use and conservation of water?

- A. Mulching
- B. Recycling
- C. Drip irrigation
- D. Re-using

31. Below is a weather instrument.



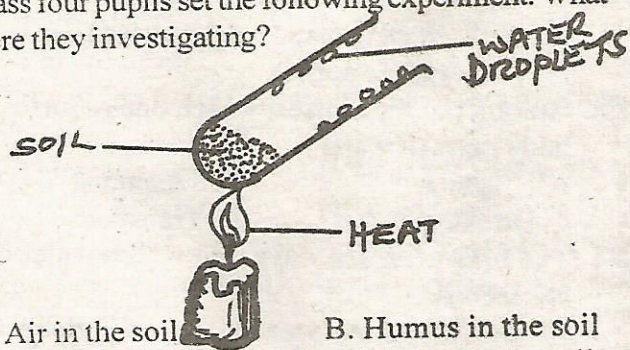
Which statement about it is **NOT CORRECT**?

- A. It uses millimeters
- B. It can be dug in the ground
- C. It can be placed on a raised ground
- D. It uses milliliters

32. Which one of the following consists of largest, brightest and smallest planets respectively?

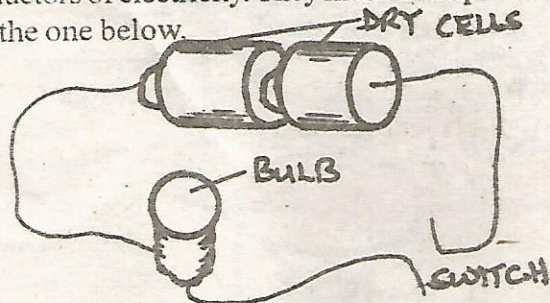
- A. Jupiter, Mercury, Venus
- B. Jupiter, Venus, Mercury
- C. Saturn, Venus, Mercury
- D. Saturn, Mercury, Venus

33. Which of the following seasons do farmers prepare land for planting? During _____
 A. rainy season B. cold season
 C. dry season D. wet season
34. Dipping animals in a dip wash or spraying them helps to control:-
 A. ticks only B. all internal parasites
 C. all types of worms D. all external parasites
35. The following are examples of levers. Which one is **NOT**?
 A. Scissors B. Ladder C. Pliers D. Human arm
36. Which of the following pairs of materials will float on water?
 A. Biro pen casing and rubber band
 B. Bottle opener and needle
 C. Nail and bottle top
 D. Coin and candle wax
37. Class four pupils set the following experiment. What were they investigating?



- A. Air in the soil B. Humus in the soil
 C. Living things in the soil D. Water in the soil

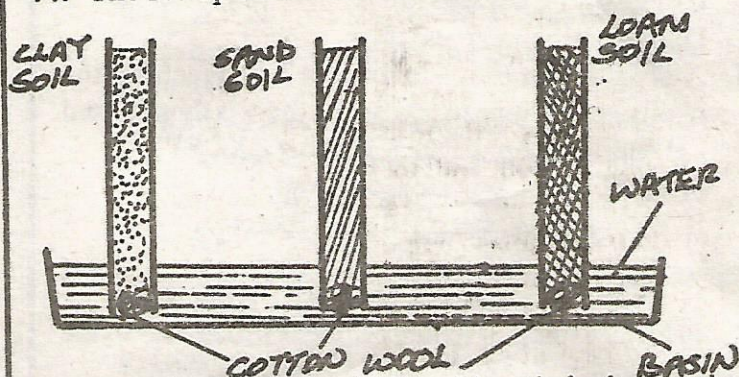
38. Kamunyaka pupils were investigating good and poor conductors of electricity. They made a simple circuit like the one below.



Which of the following could they use to connect the switch so that the bulb will light?

- A. Glass B. Nail C. Wood D. Plastic
39. Force is measured in _____
 A. grams B. joules C. newtons D. metres
40. Environment is divided into living and non-living part. Which of the following pairs is made of a living and non-living part respectively?
 A. Plants and soil B. Water and soil
 C. Plants and animals D. Plants and air
41. Three of the following are characteristics of a wind pollinated flower. Which one is **NOT**?
 A. Flowers are small in size
 B. Large amount of light pollen grains
 C. Heavy sticky stigma
 D. Hairy and feathery stigma

42. Which among the following products cannot be got from cattle?
 A. Skin B. Beef C. Hide D. Milk
43. A beam balance is an instrument used for measuring:-
 A. weight B. density C. mass D. force
44. The set-up below was made by Std 5 pupils.



Which of the following would not help them make the **BEST** conclusion?

- A. Using different types of soil
 B. Using different basins of water
 C. Using same size of tubes
 D. Using equal amount of cotton wool
45. Which of the following is **NOT** a cause of water pollution?
 A. Floods B. Human and animal waste
 C. Oil spillage D. Aerosol sprays
46. The following are internal parasites. Which one is **NOT**?
 A. Tapeworms B. Liverfluke
 C. Tsetse fly D. Lung worms
47. The following are disadvantages of friction. Which one is an advantage?
 A. Writing on the board
 B. Wearing out of tyres and soles
 C. Produces unwanted heat to working machines
 D. Make work difficult
48. The following are safety measures when dealing with electricity. Which one is **NOT**?
 A. Avoid walking in open fields
 B. Do not have cables run under a carpet
 C. Never throw objects at wires
 D. Do not fly kites near overhead electric wires
49. Sources of light can be grouped as natural or artificial. Which group consists of natural sources of light only?
 A. Sun, lanterns, stars
 B. Fireflies, lanterns, stars
 C. Sun, fireflies, stars
 D. Fireflies, stars, electricity
50. Soil has a number of components. Which component assists soil in air circulation?
 A. Humus B. Living organism
 C. Organic matter D. Water