

READ THESE INSTRUCTIONS CAREFULLY.

1. You have been given this question paper and a separate answer sheet. The question paper contains 50 questions.

2. Make sure that you have written on the answer sheet.

(i) Your name

(ii) Name of your school

(iii) KNEC Assessment number

Time: 2hrs 15mins

SCIENCE & TECHNOLOGY

1. Ahmed uses first class levers to do work. He uses the following **except**

A. a pair of scissors B. wheelbarrow
C. nailcutter D. see-saw

2. The following is a lever in used. Identify the part labelled X.

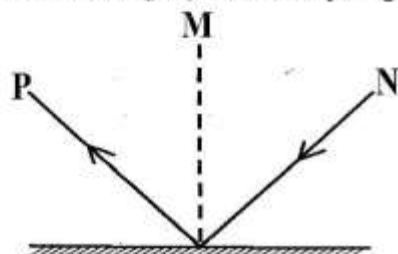


A. Load B. Pivot
C. Effort D. Fulcrum.

3. Helen collected samples of opaque materials. Which one is **wrong**?

A. Concrete wall B. Blackboard
C. Mirror D. Clear glass.

4. The following represents a ray diagram



The ray marked P is called

A. reflected ray B. normal ray
C. refracted ray D. Incident ray

5. Ramos mixed oxygen gas and nitrogen gas. What percentage composition does the two gases take?

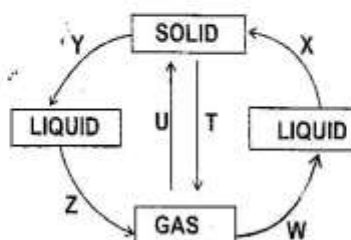
A. 99% B. 21%
C. 0.97% D. 78%

6. A component of air that is used in preservation of soft drinks is known as

A. oxygen B. carbondioxide
C. rare-gases D. nitrogen.

The chart represents changes of states of matter.

Use it to answer questions 7 and 8.



7. The change of state of matter marked X is called

A. melting B. deposition
C. freezing D. sublimation

8. Which pair of changes of state of matter need heat in order to occur?

A. Z and X B. Y and Z
C. X and Y D. T and W

9. Amolo suggest the names of parts of the human circulatory system. Which one he suggested is **not** correct?

A. Liver B. Blood
C. Heart D. Blood vessels.

10. The only artery that carries deoxygenated blood is known as

A. aorta B. pulmonary artery
C. vena cava D. pulmonary vein

Grade 6 learners of Kilo Primary School collected a sample of an invertebrate as shown in the picture.

Use it to answer questions 11 and 12.



11. Which of the following invertebrates has similar characteristics as the one above?

A. Butterfly B. Crabs
C. Scorpion D. Snail

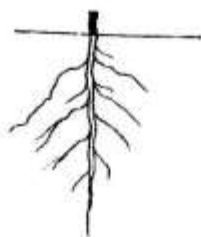
12. The invertebrates in question 11 has the following characteristics **except**

A. has a pair of feelers
B. segmented body
C. has 8 legs
D. has two body parts.

13. Gogo took photos of fungi in her locality. Which one is **not** a fungi he took its photo?

A. Mould
B. Toadstool
C. Mushroom
D. Fern

14. Rotich identified the function of the part of the plant below.



Which one is **wrong**?

A. Supports the plants
B. Makes plant food
C. Anchor plant in soil
D. Absorbs mineral salts.

15. Bandi ate chapati and beans. In which part of the digestive system was the food absorbed into the body?

A. Stomach
B. Small intestine
C. Large intestines
D. Rectum

16. The following are properties of matter:

i) **Has definite shape**

ii) **Flows**

iii) **Has definite volume**

iv) **Has indefinite volume**

v) **Has indefinite shape.**

Which one describe liquids?

A. i, iii, v
B. ii, iv, v
C. ii, iii, v
D. i, iv, v

17. Kante collected wastes from the school compound that can be re-used. Kante was likely to have collected

A. polythene bags
B. broken pieces of glass
C. potato peels
D. plastic jerricans

18. To get clean and safe water for drinking we should _____ water.

A. boil
B. filter
C. decant
D. store

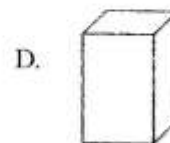
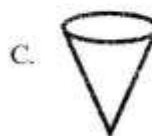
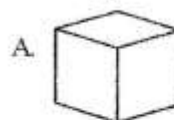
19. A ball was kicked upwards and after sometimes it was seen falling down. Which force made the ball fall down?

A. Friction
B. Gravity
C. Magnetic
D. Mass

20. Otoche uses heat in the following ways. Which one is odd one out?

A. Cooking food
B. Warming self
C. Ironing clothes
D. Taking photographs

21. Barrow was testing on objects that would sink in water. The objects are as shown below. Which one will the bottom of the container **fastest** when dipped at the same time?



22. Milka mixed salt and sand. What would be the **correct** process of separating the mixtures?

A. Filtering → dissolving → evaporating
B. Dissolving → filtering → evaporating
C. Picking → dissolving → filtering
D. Sieving → picking → winnowing

23. Tarus is suffering from a disease of the breathing system. Which disease is he suffering from?

A. Malaria
B. Cancer
C. Tuberculosis
D. Ulcers

24. An example of a vertebrate that lays eggs and its young one is called tadpole is

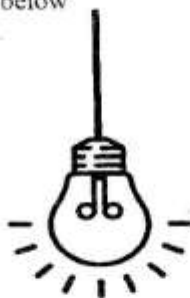
A. snake
B. fish
C. toad
D. lizard.

25. The pistil of a flower includes all the following **except**

A. anthers
B. stigma
C. ovules
D. styles

AGRICULTURE

26. It is advisable to add water to the compost heap when preparing. Why is it necessary?
- Adds bacteria
 - Adds more nutrients
 - Increases the rate of decomposition
 - Improves aeration
27. To prevent diseases, Grade 6 learners were advised to eat one of the food item below, which one is it?
- Meat
 - Ugali
 - Chips
 - Oranges.
28. What should a Grade 6 learner do after visiting the toilet?
- Wash hands
 - Wear gloves
 - Wear face mask
 - Wear gumboots.
29. Grade 6 learners practices the following farmers method that conserve water in soil. Which one is **false**?
- Cover cropping
 - Pruning
 - Mulching
 - Shading
30. Panyako uses the type of fuel shown in the picture below



The type of fuel in use is called

- gas
 - charcoal
 - kerosene
 - electricity
31. A child shows the following signs and symptoms of nutritional deficiency disease:
- Protruding abdomen*
 - Swollen face and hands*
 - Changes in skin colour and hair.*
- The child should be fed on foods rich in
- proteins
 - calcium
 - iodine
 - vitamin A.

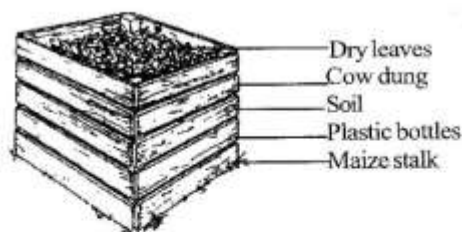
32. Njue observed the type of soil erosion shown in the diagram below.



The type of soil erosion is called

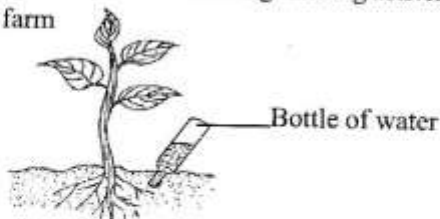
- splash erosion
 - gully erosion
 - rill erosion
 - sheet erosion
33. A farmer grows pulses. He can preserve the crops in the followign ways **except**
- drying the pulses
 - keeping in refrigerator
 - keep in airtight containers
 - mixing pulses with wood ash
34. Moses is planning to shallow fry eggs. She requires the following equipment. Which one is **correct**?
- Sufuria
 - Deep frying pan
 - Shallow frying pan
 - Cooking sticks

Luka prepared compost manure as shown in the diagram use it to answer question 35.



35. Which materials used by Luka is **not** recommended when making compost manure?
- Cow dung
 - Plastic bottles
 - Dry leaves
 - Maize stalks
36. A farmer harvested his fruits one evening. How will you advise him to conserve the fruits?
- Slice the fruits
 - Sun-dry the fruits
 - Keep them in water
 - Keep them in dry place

37. Otula carried out the following farming activity in his farm



The method of irrigating is called

- A. basin irrigation B. canal irrigation
C. drip irrigation D. sprinkler irrigating
38. The process of laying plants materials on the base of a growing crop to reduce water loss from is known as
- A. cover cropping B. mulching
C. shading D. training.
39. Juma removed unwated plants from her innovative garden. This is called
- A. weeding B. thinning
C. pruning D. gapping

During laundry process, Jako's mother was seen using the items shown in the picture below



40. What steps of laundry work process are the items in the pictures used?
- A. Rinsing B. Mending
C. Drying D. Washing
41. When cleaning glass surfaces at home you require the following **except**
- A. hardbrush B. warm water
C. soap D. sponge.

Mariko keeps small domestic animal shown in the picture. Use it to answer questions 42 and 43



42. The animal has the following benefits, which one is **not**?
- A. Used as pet B. Provide meat
C. Provide manure D. Provide milk

43. You can carry out the following routine practices on the animal above. Which one is **not**?

A. Treatment B. Dehorning
C. Feeding D. Cleaning the house.

44. All the following are parts of human digestive system **except**

A. ileum B. trachea
C. colon D. stomach

45. Seeds of vegetables crops are first raised in the _____ before they are transferred to the **main** farm.

A. seedbed B. nursery bed
C. fallow bed D. ditches.

46. Orengo was choosing clothes to wear for good grooming. He should consider all the following factors **except**

A. occasion B. size
C. Weight D. comfortability

A group of learners came across the structure in the picture below in a neighbouring maize farm. Use it to answer question 47.



47. The structure is used to
- A. attract animals B. keep off animals
C. provide shade D. make farm beautiful
48. The following are physical deterrents. Which one is **not**?
- A. Mesh fence B. Thorny fence
C. Bitter tasting herbs D. Blinking lights.
49. Peace prepared a balanced diet. Which of the food did she prepare?
- A. Beans, chapati, cabbage
B. Ugali, meat, soda
C. Chapati, milk, biscuit
D. Bananas, rice, spinach.
50. Grade Six learners improvised Personal Protective Equipment (PPE's). Which is **not** one of the PPE's they improvised?
- A. Head gear B. Hand gloves
C. Apron D. Long trousers.

INTEGRATED SCIENCE GRADE 6