

THE KENYA NATIONAL EXAMINATIONS BOARD

STANDARD SIX - KNEB 2021

SCIENCE

: 7hr40mins

- 1. One of the following is not a reason for storing tools properly Which one is it?
 - A. To cause accidents.
 - B. For safe keeping.
 - C. For them to last longer.
 - D. Tidiness in the home.

- Definite shape.
- Definite mass
- Definite size

Which pair of materials given below has the above characteristic?

- 2. The following are parts of male reproductive system except
 - A. testis
 - B. uterus
 - C. urethra
 - D. spermduct

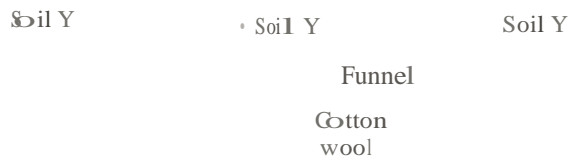
- A. Sand and rice
- B. Kerosene and salt
- C. Paper and porridge.
- D. Oxygen and Water.

- 3. Three of the following are problems related to teeth except
 - A. bad smell
 - B. tooth decay
 - C. tooth decay
 - D. dental floss

- 7. Which of the following planets would require the most amount of clay to model?
 - A. Mercury
 - B. Neptune
 - C. Earth
 - D. Jupiter

- 4. The following experiment was done by std 5 pupils of Elimu academy

- 8. Which one of the following types of soil erosion is caused by moving air?
 - A. Gully erosion.
 - B. Rill erosion.
 - C. Splash erosion.
 - D. Sheet erosion.



Which of the following statements is true about soil E?

- 9. Which of the following foods can help to boost the immunity?
 - A. Wheat
 - B. Peas
 - C. Spinach
 - D. Sweet potatoes

- A. It has a fine texture.
- B. It is the best growing crops.
- C. Spreads easily.
- D. Best drainage.

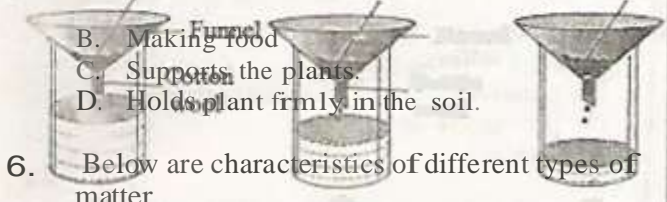
- 10. The following are signs and symptoms of a certain disease:
 - (i) Pain in joints.
 - (ii) Shivering followed by sweating
 - (iii) Fever
 - (iv) Can lead to anaemia

Which of the following is not a function of roots?

- Which disease is it?
 A. Malaria
 C. Tuberculosis


- B. Cholera
 D. Typhoid

Time



- B. Making food
 C. Supports the plants
 D. Holds plant firmly in the soil.
6. Below are characteristics of different types of matter

11. The following are rotational methods of grazing **except**
 A. strip grazing
 B. herding
 C. paddocking
 D. tethering

12. The transfer of heat that **does not** require any medium is known as
 A. convection
 B. radiation
 C. conduction
 D. convection and conduction
13. Study the diagram of a tooth below.
 How many such teeth can be found in an adult person?
- 
14. One of the following is both a modern and traditional method of preserving food. Which one is it?
 A. Canning.
 B. Use of ashes.
 C. Smoking.
 D. Drying.
15. Blood in the sputum is a major sign of
 A. Malaria
 B. Tetanus
 C. Tuberculosis
 D. Anaemia
16. Animals in the stall feeding cannot be fed on
 A. pasture
 B. concentrates
 C. fodders
 D. commercial feeds
17. Which one of the following is not a reason for lighting a house?
 A. To discourage pests.
 B. To read comfortably.
 C. For safety reason.
 D. For warming the house.
18. The type of erosion shown by the figure below is called
19. Which of the following is a common characteristic of all vertebrates?
 A. They all give birth.
 B. They all live on land.
 C. They all have a backbone.
 D. They are all warm blooded.
20. Three of the following are characteristics of insect pollinated flowers except
 A. flowers have brightly coloured petals
 B. have a pleasant smell.
 C. are usually small in size.
 D. They are usually big in size.
21. Which of the following consists of sinkers only?
 A. Nails and pieces of glass.
 B. Feathers and pins
 C. Wood and nails.
 D. Papers and leaves.
22. Excessive loss of water in the body is called
 A. sweating
 B. vomiting
 C. dehydration
 D. diarrhoea
23. Insect breath through
 A. gills
 B. nostrils
 C. spiracles
 D. lungs
24. Medicine used to treat patients are called
 A. pain relievers
 B. curatives
 C. preventive drugs
 D. vaccines
25. A person who does not have HIV in his/her blood is said
 A. infected
 B. disinfected
 C. HIV negative
 D. HIV positive
26. PLANTS

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- A. rill erosion
- B. splash erosion
- C. gully erosion
- D. sheet erosion

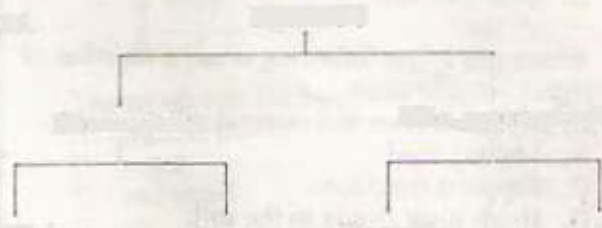
Non-green plants

Maize	Beans	Bacteria	X
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Which of these plants cannot represent X ?

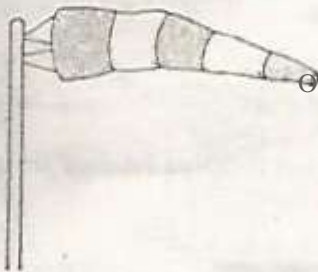
A. mould	B. mushroom
C. peas	D. toadstool

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27. Three of the following are true factors upon which an air thermometer works. Which one is **not**?
- A. Air expands on heating.
 - B. Air has weight.
 - C. Air contracts when cooled.
 - D. Air occupy space.
28. In the lungs, gaseous exchange occurs in the
- A. bronchus
 - B. ileum
 - C. air sacs
 - D. colon
29. Which of the following factors is common between a duck billed platypus, a crocodile, a frog and a tilapia?
- A. All breathe by lungs.
 - B. All breath by lungs.
 - C. All lay eggs.
 - D. All have scales.
30. When a solid heated, it becomes bigger, we say it has
- A. contractd
 - B. been added
 - C. condensed
 - D. expanded
31. Study the instrument shown below
- A wrong statement about the instrument is that
- A. the sock-shaped bag points to where wind is coming from.
 - B. it is open on both ends.
 - C. it shows both the strength and direction of wind.
 - D. When it gets filled with air it pops up (rises)
32. Which one of the following is not a sense
33. Which one of the following is not correctly matched with its young one?
- A. Horse -foal
 - B. Fish Pig -fingerling
 - C. Elephant -piglet
 - D. Kid organ?
- A. the tongue
 - B. the head
 - C. the ear
 - D. the nose

34. An put an ice cube in sufuria and heated until all the water evaporated. Which of the following shows the correct order of changes of state?
- Solid- \rightarrow Gas
 - Liquid \rightarrow Solid-+Gas
 - Gas \rightarrow Solid +Liquid
 - Solid + Liquid \rightarrow Gas
35. A crushed bottle top placed in water sinks due to its
- size
 - shape
 - mass
 - material
36. Which of the following is physical change in boys only?
- Pimples may develop.
 - Wet dreams..
 - Increase in weight and height.
 - Menstruation starts.



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37. The following are proper methods of storing medicines except
- store medicines where children can reach.
 - keep medicines in a kit
 - lock the cupboard where medicines are kept.
 - store and lable the medicines
38. The table below shows reproductive parts and their functions. Which of the parts is correctly matched with its use?
- | PART | FUNCTION |
|------------|------------------------------|
| A. Urethra | produce sperm |
| B. Ovary | produces ova |
| C. Testis | urine passes in testis |
| D. Womb | menstruation occurs in womb] |
39. The two main agents of soil erosion are
- wind and animals.
 - human beings and flowering water.
 - water and insect.
 - water and wind.

40. Which one of the following processes needs an increase in temperature?
- A. Melting and condensation
 B. Evaporation and freezing
 C. Melting and evaporation
 D. Freezing and melting
41. The extent at which soil feels smooth or rough depends on
- A. colour of the soil.
 B. drainage of soil.
 C. amount of water in soil.
 D. size of soil particles.
42. The diagram below represent a set up that is used to investigate a certain aspect of light.

}>-
 Eye

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The aspect investigated is

- A. refraction.
 B. reflection.
 C. light travels in a straight line.
 D. passage of light through materials.
43. Which of the following pairs consists only of substances that are in the same state of matter?
- A. Air and steam.
 B. Water and wax.
 C. Water vapour and ice.
 D. Wax and oil.
44. The following are some methods of preserving foods:
- (i) Canning
 Salting
 Drying
 (iv) Use of honey
 (v) Freezing

45. Which of the following type of teeth is correctly matched with its function?

- A. Incisors -cutting and holding.
 B. Molars -chewing and gripping.
 C. Canines -tearing and gripping.
 D. Premolars -crushing and cutting.

46. Which one of the following is not a part of the breathing system?

- A. Oesophagus
 B. Nose
 C. Trachea
 D. Bronchus

Which methods are traditional? A. (i) (v)

- B. (v) (ii)
 C. (i) (i)
 D. (ii) (v)

47. The date before which medicine should be used is known as the
A. useful date.

- B. expiry day.
- C. manufacture date.
- D. supply date.

48. In the word AIDS, letter S represents the word syndrome which means

- A. protected from.
- B. lack of
- C. got from.
- D. a group of signs and symptoms.

49. Which one of the following is not a special sound?

- A. Screaming
- B. Hooting.
- C. Loud music.

D. Ringing of a bell.

50. Std 4 pupils from Gokoigo Primary set up the experiment below.



The set up was used to show that soil contains

- A. organic matter
- B. water
- C. bad smell
- D. air

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