

DISCOVERY NATIONAL EXAMINATIONS STANDARD SIX -YEAR 2021

SCIENCE

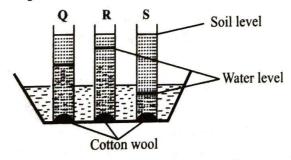
Time: 1 hour 40 minutes

1. The diagram below shows a human tooth. The function of the tooth is;



- A. gripping and tearing.
- B. tearing and grinding.
- C. crushing and grinding
- D. cutting and bitting
- 2. Which one of the following is **not** a reason for lighting a house?
 - A. To read comfortably
 - B. To feel warm
 - C. To avoid accident
 - D. To discourage pests
- 3. Which one of the following is correctly matched with its meaning in HIV/AIDS?
 - A. Immune-lack of
 - B. Deficiency-many signs and symptoms
 - C. Acquired-get from
 - D. Syndrome-to be protected from

Use the diagram below to answer questions 4 and 5.



- 4. The above experiment was used to investigate;
 - A. capillarity
 - B. water retention
 - C. drainage
 - D. water holding capacity.

- 5. The soil in the tube S is likely to be;
 - A. loam

B. sand

C. clay

D. None

- 6. The third stage of HIV/AIDS infection is;
 - A. symptomatic stage
 - B. asymptomatic stage
 - C. window stage
 - D. full-blown stage
- 7. The **best** method of controlling weeds is by:
 - A. use of chemicals
 - B. uprooting
 - C. digging them out
 - D. slashing
- 8. STD five pupils in Shama Academy observed clouds with the following characteristics.
 - i) were high in the sky.
 - ii)looked like bundles of cotton wool.
 - iii)had a flat base.

The clouds they where observed were likely to be;

A. nimbus

B. cumulus

C. stratus

D. cirrus

- The loudness or softness of a sound is known as;
 - A. pitch

B. loud sound

C. echo

D. volume

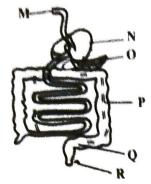
- 10. Which one of the following list of food crops consists of cereals only?
 - A. Maize, millet, sorghum
 - B. Peas, beans, groundnuts
 - C. Kales, spinach, cabbage.
 - D. Irish potatoes, carrots, arrowroots.
- 11. The following are uses of water for recreation **except**;
 - A. surfing

B. swimming

C. boat racing

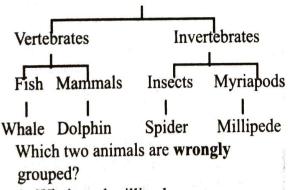
D. making fountains

Use the diagram below to answer questions 12-14



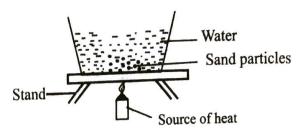
- 12. What is the function of part P in the digestive system above?
 - A. Digestion of food
 - B. Absorption of digested food
 - C. Storage of waste products
 - D. Absorption of water and mineral salts
- 13. Undigested food material is released from the body through part R this process is called:
 - A. egestion
- B. excretion
- C. digestion
- D. absorption
- 14. The digestive juice produced at part N is used for digesting;
 - A. fats and oils.
 - B. starchy carbohydrates
 - C. proteins
 - D. vitamins
- 15. Which one of the following small animals is **not** likely to be found in the soil?
 - A. Earthworms
- B. Butterfly
- C. Termites
- D. Cockroaches
- 16. Below is a classification table for animals

Animals



- A. Whale and millipede
- B. Millipede and dolphin
- C. Dolphin and spider
- D. Whale and spider

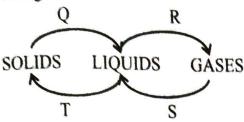
- 17. Which one of the following crops does not store food in the roots?
 - A. Onion
- B. Cassava
- C. Sweet potato
- D. Carrot
- 18. Sound does not travel through;
 - A. gases
- B. liquids
- C. vacuum
- D. solids
- 19. A boat made of metal floats on water because of;
 - A. material
- B.size
- C. shape
- D. weight
- 20. STD 5 pupils in Njure Academy carried out the experiment below.



What were they investigating?

- A. Convection in liquids
- B. Conduction in liquids
- C. Conduction and radiation
- D. Convection in gases
- 21. Which one of the following plants are greens but does **not** produce flowers?
 - A. Maize
- B. Grass
- C. Moss
- D. Cactus
- 22. Which deficiency disease below is caused by lack of iron?
 - A. Kashiakor
- B. Anaemia
- C. Rickets
- D. Marasmus
- 23. Which one of the following **cannot** be seen at all during the night?
 - A. Stars
- B. Sun
- C. Cloud
- D. Moon
- 24. Which one of the following is **not** a proper use of medicine?
 - A .Taking medicine whenever we feel unwell
 - B. Completing the dose
 - C. Taking the medicine only when prescribed by a doctor
 - D. Not taking medicine meant for another person

- poor conductor of heat?
 - A. Metallic spoon
- B. Sufuria
- C. Iron nail
- D. Wooden spoon
- 26. The diagram below shows a summary of changes in states.



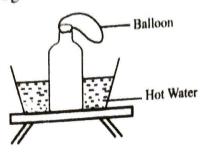
Which letters represents the processes that occur when objects are heated?

- A. QR
- B. QT
- C.ST
- D. R.S.
- 27. The best soil for modeling also;
 - A. is the best for farming.
 - B. contains a lot of humus
 - C. retains the highest amount of water
 - D, is known as the light soil.
- 28. The following are the descriptions of a certain components of a balanced diet
 - i) It is not digested in the body.
 - ii) It has no nutritive value.
 - iii)Helps to prevent constipation.

The component described above is;

- A minerals
- B. vitamins
- C. protein
- D. roughage
- 29. Which one of the following statement is not true about gases?
 - A. They expand most when heated
 - B. They have definite volume
 - C. They have definite mass
 - D. They occupy space
- 30. During breathing in, the lungs;
 - A. collapse
- B. inflate
- C. contract
- D. deflate
- 31. HIV/AIDS can be transmitted through the following body fluid except;
 - A. urine
- B. blood
- C. breast milk
- D. vaginal fluids

25. Which one of the following materials is a 32. STD 5 pupils set an experiment below during their science lesson.



What where they investigating?

- A. Solids expand on heating
- B. Liquids expand on heating
- C. Air exerts pressure
- D. Gases expand when heated
- 33. The following non-green plants are classified as harmful fungi except;
 - A. dandruffs
- B. athletes foot
- C. toadstool
- D. ringworms
- 34. The windsock is usually painted with large black and white stripes mainly to;
 - A. make it last longer
 - B. make it visible
 - C. make it beautiful
 - D. make it durable
- 35. The following are characters of amphibians except;
 - A. they have scales
 - B. the have a moist skin
 - C. they have external fertilization.
 - D. they are cold blooded.
- 36. Heat transfer through solid is called;
 - A. conduction.
 - B. radiation.
 - C. convection.
 - D. condensation.
- 37. Two std 7 boys Keter and Kibet were balancing on a see-saw. Keter is heaver than Kibet. For them to balance;
 - A. Kibet should move closer to the pivot.
 - B. They should sit equal distance from the pivot.
 - C. Kibet should sit further from the pivot.
 - D.Keter should should move further from the pivot.

- 38. Small quantities of mass are measured in unites called;
 - A. tonnes.

B. newtons

C. kilograms

- D. grams
- 39. Which one of the following is **not** an example of oil crops?
 - A. Coconut

B. Cassava

C. Sunflower

- D. Groundnuts
- 40. People working in noisy factories are provided with the following to protect themselves from noise except;
 - A. ear muffs
 - B. ear defenders
 - C. ear buds.
 - D. ear plugs
- 41. The animal drawn below moves by;



A. crawling

B. slithering

C. walking

- D. gliding
- 42. Which one of the following is **not** a component of soil?
 - A. Living organisms.
 - B. Air
 - C. Water
 - D. Inorganic matter
- 43. The following are parts of the breathing system except;
 - A. gullet
 - B. nose
 - C. lungs
 - D. bronchioles
- 44. The diagram below shows a cooking pan



The best material for making part N

is;

- A. aluminum
- B. iron
- C. hardened plastic
- D. any metal

- 45. The following are requirements during photosynthesis. Which one is **not**?
 - A. Oxygen
 - B. Water
 - C. Mineral salt
 - D. Sunlight
 - 46. Which animal below provide us with mohair?
 - A. Sheep
 - B. Goat
 - C. Donkey
 - D. Rabbit
 - 47. Which one of the following **does not** belong to the same state of matter as the other?
 - A. Maize flour
 - B. Oxygen
 - C. Ice cubes
 - D. Sand particles.
 - 48. Which one of the following weeds has a strong unpleasant smell?
 - A. Mexican marigold
 - B. Black jack
 - C. Wandering jew
 - D. Thorn apple
 - 49. The experiment below was carried out by pupils to investigate a method of heat transfer.



They were investigating;

- A. convection currents in air
- B. heat transfer in radiation
- C. convection in liquids
- D. sinking and floating
- 50. A deaf or a dump person has-senses
 - A.3
 - **B.5**
 - **C.4**
 - D.2