

DISTINCTION SCHOOL BASED ASSESSMENT TEST

STANDARD SEVEN - 2021

7

SCIENCE

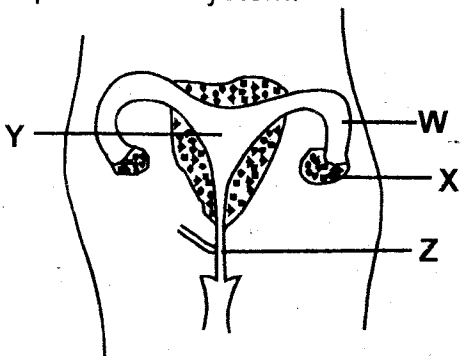
PREMIER

Time: 1hr 40mins



- The undigested food material is temporarily stored in the
A. anus
B. rectum
C. colon
D. small intestine
- Which one of the following pairs shows living components of an environment?
A. Plants and animals
B. Animals and soil
C. Air and water
D. Plants and water
- When setting and carrying out an investigation on soil drainage. What should not be the same?
A. Amount of soil
B. Size of funnels
C. Size of collecting jars
D. Amount of cotton wool used
- Cross pollination is the transfer of pollen grain from the
A. anthers to stigma of any flower.
B. anthers of one flower to the stigma of another flower
C. anther of one flower to the stigma of another flower on a different kind of a plant
D. anthers of one flower to the stigma of another flower on a different plant of the same kind

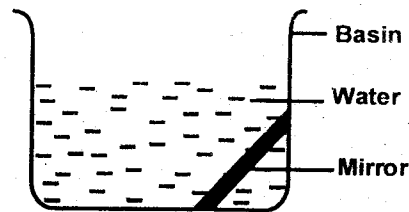
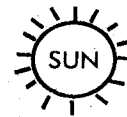
5. The diagram below shows female reproductive system.



Which letter above shows where fusion of sex cells take place?

- A. W
B. X
C. Y
D. Z

- Which one of the following diseases **cannot** be prevented by maintaining proper hygiene?
A. Bilharzia
B. Cholera
C. Anaemia
D. Typhoid
- Which one of the following leads to water pollution?
A. Burying banana peels in soil.
B. Washing clothes and vehicle in river
C. Releasing treated sewage into rivers
D. Using farm chemical sparingly
- Which of the following **does not** take place during inhalation?
A. Diaphragm flattens
B. ribs move outwards
C. pressure in lungs decreases
D. volume of the chest cavity decreases
- Std 6 pupils prepared the set up below.



The aspect of light investigated was

- A. making of a rainbow
B. reflection of light by a mirror
C. refraction of light in water
D. transfer of heat from sun by radiation
- Which material below is **not** required when making liquid thermometer?
A. water
B. ink
C. manila paper
D. funnel
 - Which one of the following is **untrue** about duck billed platypus and ostrich? Both
A. lay fertilized eggs
B. are warm blooded
C. suckle their young ones
D. breath through lungs

12. Which stage of HIV/AIDS infection can the victim test positive without signs of the diseases?

- A. Full blown AIDS
- B. Asymptomatic stage
- C. Symptomatic stage
- D. Window stage

13. Sheet erosion is also called

- A. landslide
- B. splash
- C. rill
- D. spatter

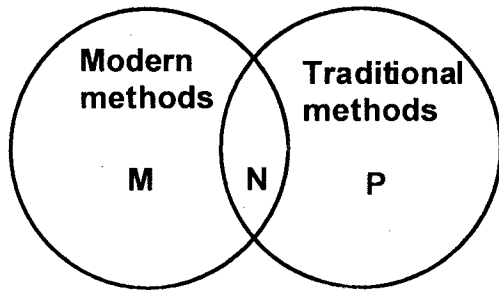
14. The following are characteristics of a certain soil.

- i) *Least air spaces*
- ii) *Crack when dry*
- iii) *Smooth texture*
- iv) *Make the longest ribbons*

The soil above is **likely** to be

- A. loam
- B. clay
- C. sand
- D. silt

15. The charts below shows method of food preservation?



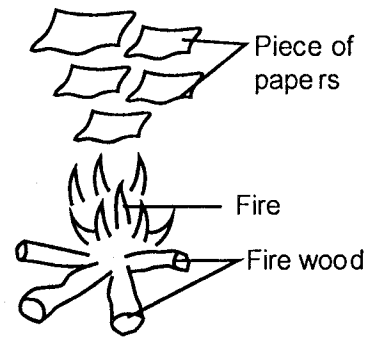
Which one of the following represents **M**, **N** and **P** respectively?

	M	N	P
A.	Canning	Drying	Salting
B.	Salting	Use low temperature	Drying
C.	Canning	Smoking	Drying
D.	Drying	Use of honey	Low temperature

16. Which one of the following is **not** an importance of water in the diet?

- A. Blood formation
- B. Helps in food digestion
- C. Helps in removal of faeces
- D. Prevent dehydration

17. Std 7 pupils did the experiment below by dropping paper on burning fire as shown below.



What were the pupils investigating?

- A. Radiation
- B. Convection
- C. Conduction
- D. Air movement

18. Which blood component fight germs in the body?

- A. White blood cells
- B. Red blood cells
- C. Platelets
- D. Plasma

19. Which type of teeth helps in cutting food?

- A. Canine
- B. Incisors
- C. Molars
- D. Premolars

20. The following are characteristics of a cloud.

- *Flats at the bottom*
- *Look like cotton balls*
- *Found high in the sky*

The clouds above are **likely** to be

- A. cumulus
- B. nimbus
- C. cirrus
- D. stratus

21. What is the **main** purpose of mulching?

- A. Remove weeds
- B. Control soil erosion
- C. Conserve water
- D. Remove excess water from soil

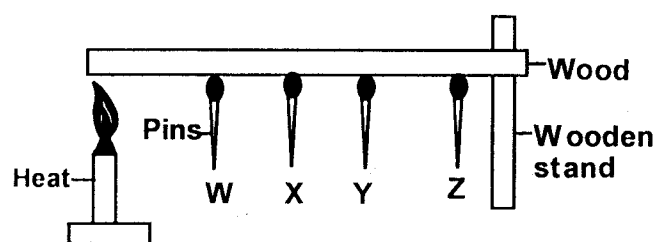
22. The following are effects of livestock diseases. Which one is **not**?

- A. Death of animals
- B. Increased appetite
- C. Low yields
- D. Transmission of diseases to people

23. In a farm water is used for

- A. boat racing
- B. washing coffee berries
- C. sport fishing
- D. irrigating crops

24. The experiment below was done by Std 5 pupils while investigating transfer of heat.



After some time the pins dropped starting with **W** to the last pin **Z**. This was due to transfer of heat through a process called

- radiation
 - convection
 - conduction
 - expansion
25. The following are signs of a certain disease.
- Pain in the chest
 - Loss of weight
 - Sweating at night
 - Blood in sputum and saliva

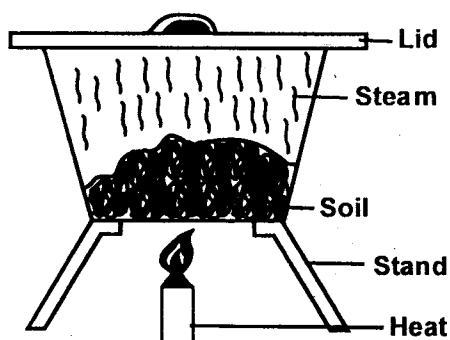
The disease is **likely** to be

- | | |
|--------------|-----------------|
| A. bilharzia | B. tuberculosis |
| C. malaria | D. cholera |
26. Which statement is **true** about liquids?
- Has definite mass and shape
 - Has definite size and shape
 - Has indefinite shape and size
 - Has definite volume and mass
27. The force that resist motion is called
- | | |
|-------------|-------------|
| A. pressure | B. weight |
| C. inertia | D. friction |
28. Which one of the components of the environment is abundant on the earth surface?
- Water
 - Air
 - Soil
 - Animals and plants
29. Which crop below is not a tuber?
- | | |
|-----------|--------------|
| A. Carrot | B. Arrowroot |
| C. Onion | D. Beetroot |
30. The component of air that is used in photosynthesis is also used for
- plant germination
 - putting out fire
 - metal rusting
 - light bulbs

31. Which of the following crops pest is **correctly** matched with the damage they cause on crops?

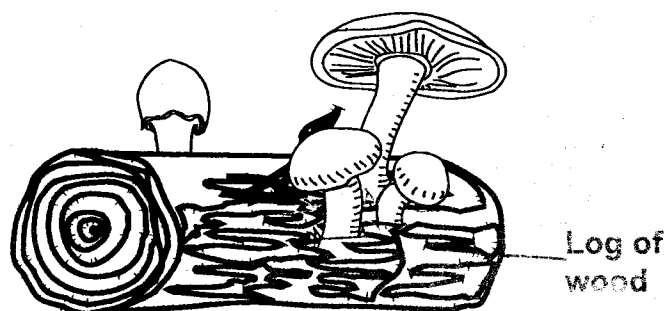
- Cutworms - Eat grains in the field
- Aphids - suck sap on leaves
- Weevils - cut stems of young plant
- Weaver birds - bore holes in stems

32. The set up below was used by pupils to investigate a certain component of soil.



The soil component investigated is

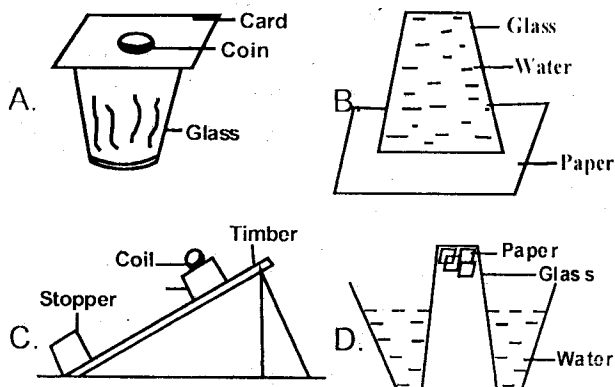
- inorganic matter
 - organic matter
 - air
 - water
33. Which one of the following is **not** a social effect of drug abuse?
- Truancy
 - Poor judgement
 - Accidents
 - Rape
34. Which one of the following is true about both miraa and alcohol? They
- cause liver cirrhosis
 - are depressants
 - are legal drugs
 - are prohibited in Kenya
35. The diagram below shows interdependence between plants.



This shows plants interdependence on

- | | |
|------------|--------------|
| A. habitat | B. shade |
| C. support | D. nutrients |

36. Which experiment below can be used to demonstrate what happens to the passengers when the car brakes abruptly?



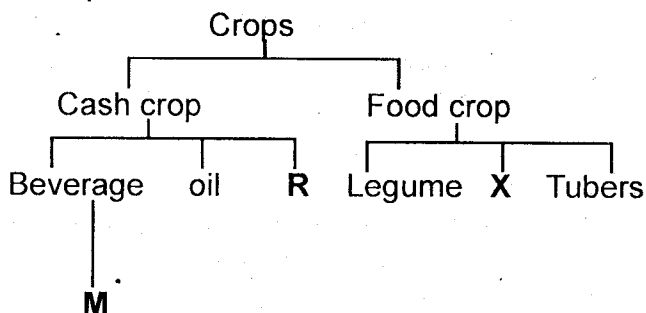
37. Which vaccine is given to an infant at the age of 9 months

- A. Tuberculosis B. Polio
C. Cholera D. Measles

38. Which animal below has scales on its body?

- A. Frog B. Ostrich
C. Whale D. Salamandar

39. The chart below shows classification of crops.



Which crops can correctly replace letters M, R and X respectively?

	M	R	X
A.	Tea	Flax	Sisal
B.	Sunflower	Sisal	Beans
C.	Coffee	Simsim	Sunflower
D.	Cocoa	Cotton	Maize

40. The tips of the thread-like structures found in the maize cob are

- A. styles B. stigmas
C. anthers D. filaments

41. A metallic bowl floats on water due to its

- A. weight B. material
C. shape D. size

42. Insectivorous plants grow in soil that lacks

- A. oxygen B. water
C. nitrogen D. living organisms

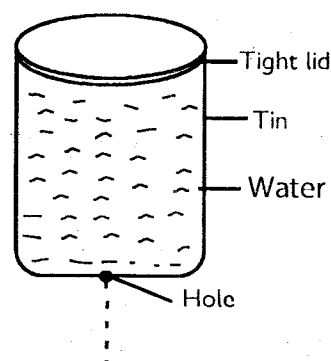
43. Draining stagnant water can help in controlling diseases called

- A. Cholera and Typhoid
B. Malaria and Typhoid
C. Bilharzia and Malaria
D. Cholera and Malaria

44. Which group of foods below shows a balanced diet?

- A. Kales, oranges, meat
B. Cassava, onion, milk
C. Chapati, milk, meat
D. Chips, chickens, soda

45. Std 4 pupils carried out the experiment shown below.



In order for the water to flow out smoothly from the tin, you should

- A. raise the tin
B. reduce water
C. make another hole on the lid
D. make another hole next to the small hole

46. Which deficiency disease below is caused by lack of vitamins and minerals?

- A. Rickets B. Anaemia
C. Kwashiorkor D. Marasmus

47. Which weed has black seeds with hooks?

- A. Oxalis B. Thorn apple
C. Black jack D. Mexican marigold

48. The **best** method to control the spread of HIV/AIDS among the youths is

- A. use condoms
B. being faithful to the partner
C. by use of medicines
D. abstinence

49. Which one of the following component of air keeps varying from time to time

- A. water vapour B. oxygen
C. carbon dioxide D. nitrogen

50. Which blood vessel carries deoxygenated blood to the heart?

- A. Aorta B. Vena cava
C. Pulmonary vein D. Pulmonary artery