

# SCHOOL BASED EVALUATION TEST

D003

STD. 8 YEAR 2022

[8]

## SCIENCE

Time: 1Hr. 40 Mins.

### READ THESE INSTRUCTIONS CAREFULLY.

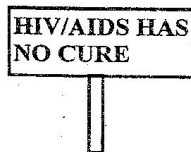
1. You have been given this question paper and a separate answer sheet. The question paper contains 50 questions.
2. Do any necessary rough work in this booklet.
3. Use only an ordinary pencil.

1. YOUR NAME

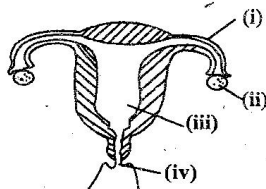
2. NAME OF YOUR SCHOOL

3. YOUR INDEX NUMBER

1. Which component of blood helps in the transportation of food, salt and heat to various body parts?  
A. Platelets  
B. Red cells  
C. Plasma  
D. Haemoglobin
2. Jane was travelling from Oyugis to Kisumu by a matatu. On the way she saw the diagram below by the road side. Which control method for HIV was this?

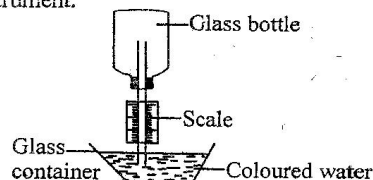


- A. Creating public awareness
  - B. Mass education
  - C. Mass communication
  - D. Campaigns through various media
3. Study the diagram below and answer the question.

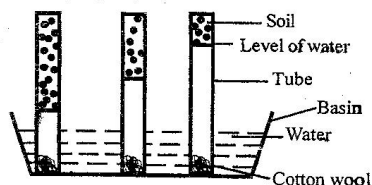


- Implantation takes place at the part marked?  
A. iii B. ii C. i D. v
4. The following are steps in the birth process in humans. Which of them initiates the others?  
A. Bursting of the amniotic sac  
B. Tying of the umbilical cord  
C. Onset of labour pains  
D. Removal of the after birth
  5. The following are characteristics of a certain animal.  
(i) has moist skin  
(ii) lives in land or were  
(iii) lays unfertilized eggs in water

- (iv) has varying body temperature  
The animal describe above is likely to be a \_\_\_\_\_  
A. lizard B. turtle C. snake D. newt
6. Which component of the environment is found in all the non-living parts of the environment?  
A. Light B. Water C. Air D. Soil
7. The diagram below shows an improvise weather instrument.



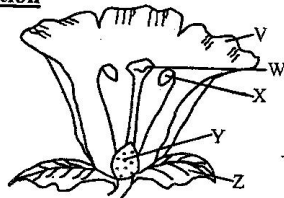
- What would be observed when the temperature rises?
- A. the level of coloured water in the container does not change
  - B. the coloured water level in the straw drops
  - C. Air in the glass bottle contracts
  - D. Air in the glass bottle expands
8. Grade five did the experiment below to investigate a certain property of soil



- Which one of the following could not affect their results?
- A. Using wet soil
  - B. Using soil with the same size of particles
  - C. Using different volume of cotton wool
  - D. Using the same water containers
9. Which one of the following is NOT a waste pollutant?  
A. oil spillage from tankers  
B. farm chemicals  
C. aerosol sprayers

- D. domestic waste
10. Which one of the following pairs of liquids are miscible?  
 A. Fresh milk, water      B. Cooking oil, water  
 C. Water, kerosene      D. Paraffin, fresh milk
11. Which one of the following shows the correct arrangement of the effort, load and fulcrum in a wheelbarrow when in use?  
 A. Load, fulcrum, effort      B. Load, effort, fulcrum  
 C. Fulcrum, effort, load      D. Fulcrum, load, effort
12. Which of the following consists of good conductors of electricity only?  
 A. silver, iron, cloth  
 B. copper, tin, aluminium  
 C. water, wood, paper  
 D. rubber, chromium, copper
13. Which one of the following pairs of livestock parasites can be controlled by dipping?  
 A. tse tse flies, liverflukes  
 B. threadworms, tapeworms  
 C. ticks, roundworms  
 D. fleas, ticks

14. Below is a diagram of a flower use it to answer question

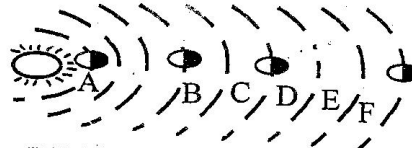


- In which part does fertilization take place?  
 A. W      B. Z      C. Y      D. X
15. The following are effects of pests on crops except?  
 A. leading to lower yields  
 B. causing reduced quality of produce  
 C. causing increased quantity of produce  
 D. transmitting diseases to crops
16. Plants growing in deserts have thorns and spikes to mainly to \_\_\_\_\_  
 A. reduce water loss  
 B. protect them from grazers  
 C. store water for future use  
 D. make food during photosynthesis
17. Which tooth related problem is characterized by red swollen gums that are very painful when brushing?  
 A. Dental cavities      B. Tooth cavity  
 C. Dental floss      D. Gingivitis
18. The following are symptoms of a certain water borne disease  
 (i) aches in the muscles and joints  
 (ii) abdominal pain      (iii) skin rash  
 (iv) fever  
 The disease described can be prevented by \_\_\_\_\_  
 A. Disposing off faeces properly  
 B. Sleeping under treated mosquito nets  
 C. Wearing gumboots when walking in stagnant

water

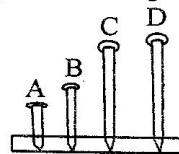
D. Draining stagnant water and clearing bushes around our houses

19. The diagram below shows a model of the solar system.



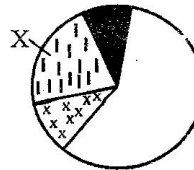
Which is the third step in making of the model above?

- A. Model the sun and the planets  
 B. Draw the circles to represent the orbit  
 C. Paste the manilla paper on the soft board  
 D. Put the name tags of the sun and the planets
20. The following are signs and symptoms of a certain deficiency disease  
 (i) sores at the corners of the mouth  
 (ii) liver may be affected  
 (iii) develops pot belly or protruding stomach  
 (iv) passes out loose stools  
 The disease described above can be prevented by eating foods rich in \_\_\_\_\_  
 A. Proteins      B. a balanced diet  
 C. Iron      D. Calcium
21. Four nails were fixed on a piece of timber as shown below. If struck with a hammer, which nail produced the highest sound?



- A. A  
 B. B  
 C. C  
 D. D

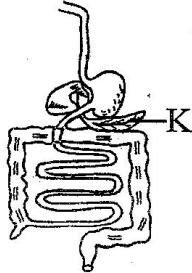
22. The following are characteristics of a certain state of matter.  
 (i) occupy space      (ii) definite mass  
 (iii) definite volume      (iv) no definite shape  
 Which one of the following substances can fit the description above?  
 A. Cooking gas      B. Oxygen  
 C. Chalk dust      D. Orange juice
23. The pie chart below shows the components of air.



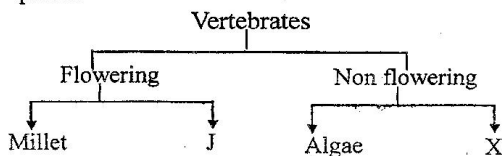
Which of the following is not a use of the component marked X?

- A. Helps in breathing  
 B. Helps in putting out fire

- C. Helps in seed germination  
D. Supports burning
24. The diagram below shows the digestive system. Which one of the following statements is not true about the part marked K?

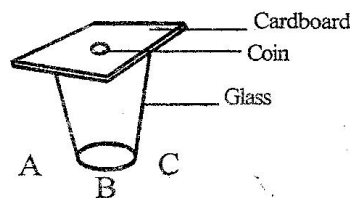


- A. It produces pancreatic juice  
B. It is not part of the alimentary canal  
C. It produces a digestive juice  
D. The juice it produces is stored in the gall bladder
25. Which excretory product is excreted by the skin only?  
A. Urea  
B. Sweat  
C. Lactic acid  
D. Carbon dioxide
26. Deoxygenated blood from the body enters the heart through the \_\_\_\_\_  
A. Vena cava  
B. Pulmonary vein  
C. Pulmonary artery  
D. Aorta
27. The following are signs of a Sexually Transmitted Infection.  
(i) burning sensation when urinating  
(ii) caused by bacteria  
(iii) pain in the abdomen  
The disease described above is likely to be?  
A. Chancroid  
B. Gonorrhoea  
C. Syphilis  
D. AIDS
28. The chart below shows a simple classification of plants.



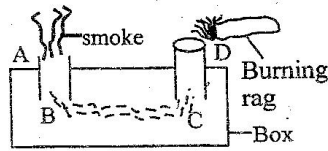
- Which plants fit in X and J respectively?
- |             |            |
|-------------|------------|
| <u>X</u>    | <u>J</u>   |
| A. Fern     | Mushroom   |
| B. Grass    | Toadstool  |
| C. Conifers | Groundnuts |
| D. Lichen   | Pine       |
29. Which one of the following is not a way of using water sparingly?  
A. Drip irrigation  
B. Repairing leaking pipes and taps  
C. Closing taps which are not in use  
D. Using water used for washing clothes to mop the floor

30. Which one of the following consists of a pair of opaque materials?  
A. clean water, frosted glass  
B. tinted paper, iron sheet  
C. metal, stone  
D. mirror, wood
31. The following are effects of a certain drug to the user.  
(i) difficulty in breathing  
(ii) aggressiveness  
(iii) hallucinations  
Which of the following drugs has all the above effects?  
A. Mandrax  
B. Alcohol  
C. Miraa  
D. Bhang
32. Study the food chain below and answer the question  
Grass → Locusts → Frogs → Hawks  
What would be the immediate effect if all the frogs were removed?  
A. The locusts would increase in number  
B. The hawks would increase in number  
C. The grass would decrease in quantity  
D. The hawks would eat grass
33. Why is it important to turn materials in a compost pit?  
A. To introduce bacteria  
B. To allow air circulation  
C. To add nutrients  
D. To kill bacteria
34. After rainfall, class six pupils realised that most of their plants had their roots exposed. Which type of soil erosion took place?  
A. Gully erosion  
B. Rill erosion  
C. Splash erosion  
D. Sheet erosion
35. Which one of the following waterborne diseases is best controlled by wearing protective clothing when handling stagnant water?  
A. Cholera  
B. Bilharzia  
C. Malaria  
D. Typhoid
36. Study the diagram below

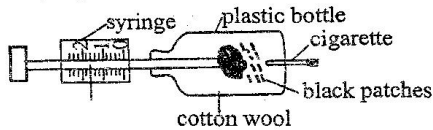


- What would happen to the coin if the cardboard was pulled suddenly?  
A. It would fall at point A  
B. It would fall at point B  
C. It would fall at point C  
D. It would move together with the cardboard

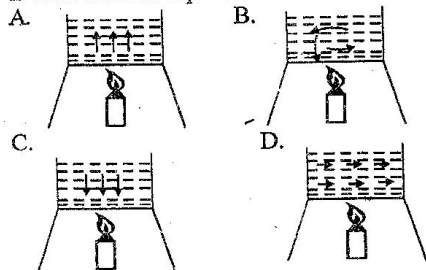
37. Grade 5 learners did the experiment below on heat transfer. Where should the candle be placed?



- A. A      B. B      C. C      D. D
38. The following are good conductors of heat. Which one is **not**?
- A. Copper      B. Aluminium  
C. Glass      D. Lead
39. The diagram below shows the effect of tobacco smoking.



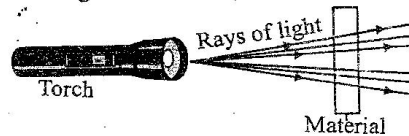
- Which compound of tobacco caused the black patches on the cotton wool?
- A. Tar      B. Nicotine  
C. Carbon dioxide      D. Carbon monoxide
40. The first step of obtaining salt from a mixture of salt solution and pieces of copper wire is \_\_\_\_\_
- A. dissolving      B. filtering  
C. using magnets      D. evaporation
41. Which of the following diagrams shows how heat is transferred in liquids?



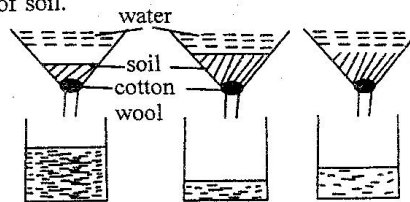
42. In which of the following cases is friction a disadvantage?
- A. Braking      B. Writing  
C. Bird flying      D. Grinding maize
43. Which one of the following is **NOT** an effect of force?
- A. changing the state of matter of an object  
B. stopping an object from moving  
C. accelerating a moving object  
D. changing the direction of moving object
44. Which one of the following is **not** a characteristic of plants used to prepare green manure?
- A. Should be leafy  
B. should be able to decay quickly  
C. Should contain high amount of nitrogen  
D. Should grow slowly to accumulate more

nutrients

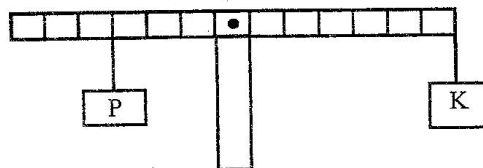
45. Which one of the following is a source of electricity?
- A. Electromagnet      B. Dynano  
C. Dam      D. Bulb
46. The following are precautions against lightning except?
- A. using shoes with rubber soles  
B. squatting on the ground away from tall trees  
C. avoiding carrying metallic sharp pointed objects  
D. walking in open field when it's raining
47. The diagram below shows a set up that was used to investigate a certain aspect of a material.



- The material used in this set up can be said to be
- A. transparent      B. opaque  
C. translucent      D. luminous
48. The best method of controlling human intestinal worms is by
- A. regular deworming  
B. proper washing of foods which are eaten raw  
C. maintaining proper sanitation  
D. proper cooking of food
49. Grade six pupils set up the experiment shown below to investigate a certain physical property of soil.



- To get the correct observation it is important to
- A. use the same type of soil  
B. use soil collected from different places  
C. use funnels of different diameters  
D. put water at different intervals
50. Std. 7 pupils set up the experiment below.



- Which one of the following activities were the pupils likely to be undertaking?
- A. comparing the densities of objects  
B. comparing the masses of objects  
C. measuring the weight of objects  
D. measuring the force of objects