

# BRIGHT VISION SERIES

## STD 8 - YEAR - 2023

### SCIENCE

SASON  
001

READ THESE INSTRUCTIONS CAREFULLY

Time: 1Hour 40Min.

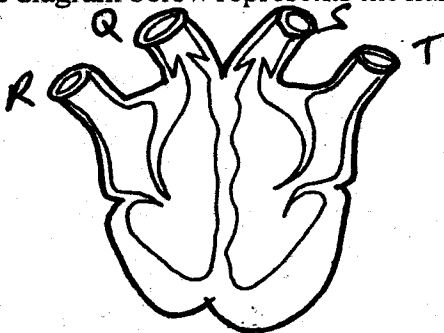
1. Use an ordinary pencil only.
2. Make sure that you have written on the answer sheet.

I. YOUR NAME \_\_\_\_\_

II. NAME OF YOUR SCHOOL \_\_\_\_\_

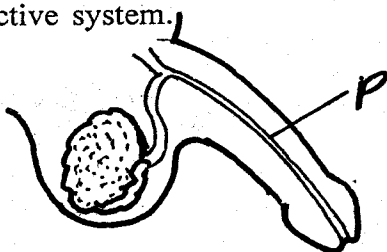
1. Which one of the following characteristics can be used to identify canines? Presence of  
A. cups and ridges  
B. one root and pointed tip  
C. two roots and chisel shape  
D. white colour and broad shape
2. The following are parts of the breathing system except  
A. gullet  
B. diaphragm  
C. alveoli  
D. nose
3. Which of the following parts of the breathing system is correctly matched with how it behaves during breathing in  

<u>Part</u>	<u>How it behaves</u>
A. Diaphragm	- Forms a dome shape
B. Ribs	- Moves upwards and outwards
C. Lungs	- Decrease in size
D. Trachea	- Traps oxygen and carbon dioxide
4. The diagram below represents the human heart.

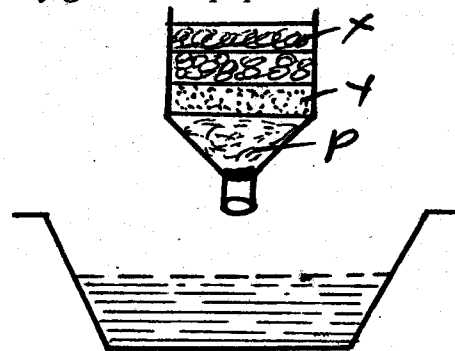


Which of the blood vessels Q, R, S and T carries deoxygenated blood?

- |            |            |
|------------|------------|
| A. R and T | B. Q and S |
| C. S and T | D. Q and R |
5. The diagram below represents the male reproductive system.



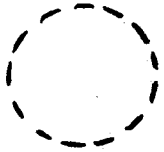
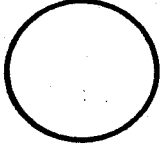


- The part labelled P is called \_\_\_\_\_ and is used for \_\_\_\_\_
- A. scrotum - storage of sperms
  - B. urethra - protect the testicles
  - C. penis - allowing sperms into the vagina
  - D. urethra - passage of urine and sperms
6. Which one of the following statements describe drug abuse?  
A. Taking drugs recommended by the doctor  
B. Taking recommended dose  
C. Buying more medicine when its over  
D. Taking all medicines after meals
  7. Which one of the following is **not** a fact about HIV/AIDS?  
A. AIDs patients are usually thin and sickly  
B. AIDs has no cure  
C. Anyone can get AIDS  
D. Only humans get AIDS
  8. Which one of the following pair shows plants that store food in their stem?  
A. Sweetpotatoes and millet  
B. Irish potatoes and sugarcane  
C. Arrowroots and onion  
D. Cabbage and kales
  9. The diagram below shows a water filter made by grade four pupils.



The materials labelled p and x are \_\_\_\_\_ and \_\_\_\_\_ respectively.

- |                                  |
|----------------------------------|
| A. cotton wool and charcoal      |
| B. fine sand and charcoal        |
| C. pebbles and fine sand         |
| D. cotton and wool and fine sand |

10. When making a compost heap, top soil is added to  
 A. prevent leaching  
 B. increase the content in the compost  
 C. introduce bacteria  
 D. provide food for the bacteria
11. The following are uses of medicines and drugs **except** to  
 A. relief pain  
 B. supplement food nutrients  
 C. cure diseases  
 D. make one feel well
12. Which of the following weeds has spikes on its fruits and is poisonous?  
 A. Datura                      B. Sodom apple  
 C. Mexican marigold      D. Black jack
13. The following pairs shows home appliances that use electric to operate **except**  
 A. radio and television  
 B. iron box and electric kettle  
 C. microwave and fridge  
 D. watch and jiko
14. Which one of the following statements about interdependence is not **true**?  
 A. Weak stemmed plants depend on others for support  
 B. Some plants provide growing environment for others  
 C. Plants need oxygen from animals to survive  
 D. Plants depend on insects for pollination
15. Which of the plant pest is **correctly** matched with the part of the plant it damages?  

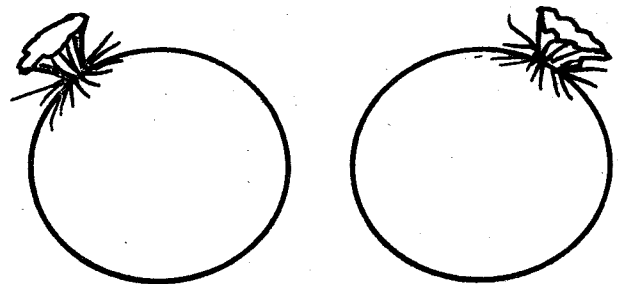
Pest	Part damaged
A. Cutworm	stem
B. Stalkborer	roots
C. Weaver birds	leaves
D. Aphids	seeds
16. Which of the following groups of plants consist of only non-flowering plants?  
 A. Onion, cabbage, grass  
 B. Peas, beans, kales  
 C. Moss, cedar, fern  
 D. Maize, millet, sorghum
17. Which of the following shapes of the moon shown below comes after the new moon?  
 A.                       B.   
 C.                       D. 

18. In the solar system, which is the 3rd and the 2nd last planet respectively?  
 A. Earth and Neptune    B. Neptune and Earth  
 C. Venus and Saturn      D. Earth and uranus
19. Pupils collected pictures of animals and pasted them on a chart as shown below.

Chart A	Chart B
Hawk	Butterfly
Chameleon	Cricket
Frog	Spider
Snake	Earthworm

The pupils classified the animals on the basis of

- A. warm blooded and cold blooded  
 B. Vertebrates and invertebrates  
 C. Animals with wings and those without  
 D. Carnivores and herbivores
20. Mr. Obuya had two balloons as shown in the diagram below.



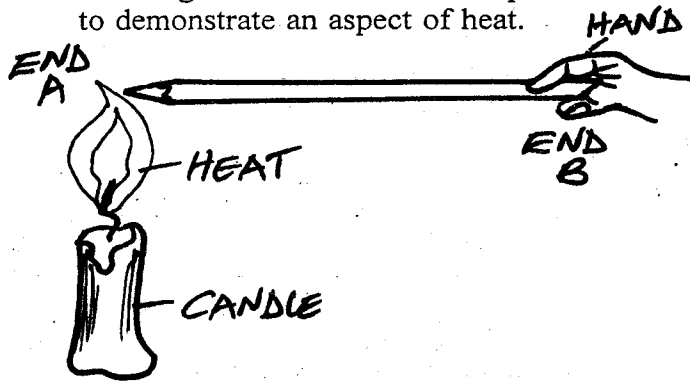
He rubbed them on his hair and brought them close to each other. Which statement explain what happened? The balloons

- A. repelled                      B. attracted each other  
 C. bursted                      D. increased in size
21. Which of the following is **not** a characteristic of animals?  
 A. Movement                      B. Reproduction  
 C. Reacting to changes      D. Making food
22. The following describes a certain method of grazing;  
 i) *It has small fenced fields*  
 ii) *Animals graze for a short time and moves to the next*  
 iii) *Each portion has a watering point*  
 The method of grazing described above is  
 A. strip grazing                      B. paddocking  
 C. tethering                      D. zero grazing
23. Pupils gave statements below about nutritional deficiency diseases;  
 i) *Child cries a lot*  
 ii) *Child develops brownish thin hair*  
 iii) *Shapes of the bones is visible underneath the skin*  
 iv) *Skin becomes loose and hair falls out*  
 v) *Muscles disappear*

Which statements above are signs of marasmus?

- A. (iii) and (v)                      B. (i) and (iv)  
C. (ii), (iii), (v)                  D. (iii), (iv), (v)

24. Which one of the following pair of diseases is the child immunized at 6 weeks and 14 weeks?  
A. Polio and tetanus  
B. Yellow fever and polio  
C. Tuberculosis and measles  
D. Measles and whooping cough
25. Which of the following describes water recycling?  
A. Using dirty water to water plants  
B. Treating sewage water for farm use  
C. Using water used for laundry to mop the house  
D. Collecting water in a dam
26. The diagram below shows an experiment used to demonstrate an aspect of heat.



The experiment was used to demonstrate

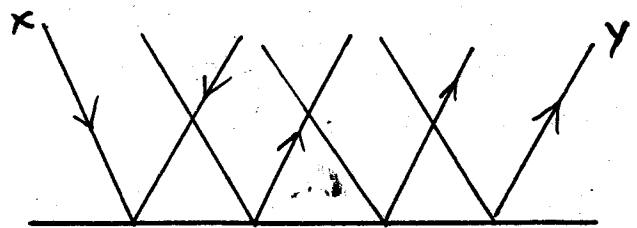
- A. convection in solids  
B. expansion in solids  
C. conduction in solids  
D. contraction in solids
27. Which of the following statements is **not** correct about sounds?  
A. The loudness of a sound varies with distance from the source  
B. A whisper is a loud sound  
C. The shape of ears of some animals amplifies sound  
D. Sound can be produced by hitting
28. Small channels in the soil indicate  
A. rill erosion                      B. gully erosion  
C. splash erosion                  D. sheet erosion
29. Which one of the following does **not** describe aspects of temperature?  
A. Temperature is hotness or coldness of an object  
B. When a solid or liquid absorbs heat it becomes cool  
C. Lukewarm, cool and cold can be used to describe temperature of matter  
D. When it is cold we say temperature is low

30. A pupil came across the objects shown below in a market.



The objects are known as

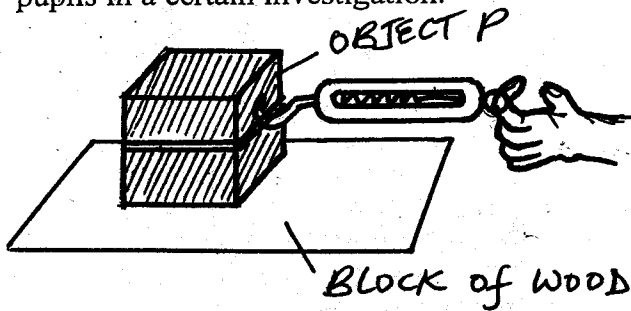
- A spring balance                      B. grams  
C. masses                                  D. standard weights
31. The following are sources of electricity **except**  
A. torch battery  
B. dynamo  
C. bulbs  
D. hydroelectric generator
32. The word **TOLL** was written on a card and placed in front of a mirror. Letter **L** changed its appearance due to  
A. reflection                              B. refraction  
C. dispersion                              D. diffraction
33. Which of the following material works the same way as a skylight?  
A. Mirror                                  B. Tinted window  
C. Clear water                              D. Wood
34. Which of the following groups of food will help protect the body against diseases?  
A. Liver, beef, chicken  
B. Water melon, mango, orange  
C. Millet, sorghum, wheat  
D. Avocado, peanuts, cashewnuts
35. The diagram below shows a type of reflection.



The rays marked **X** are known as

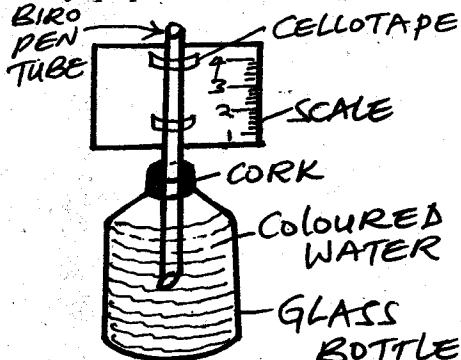
- A. reflected                              B. regular  
C. incident                                  D. refracted
36. Which of the following gases is used as a preservative?  
A. Carbon dioxide                      B. Inert gases  
C. Oxygen                                  D. Nitrogen
37. Liver, kidney, meat, eggs and spinach are rich source of  
A. calcium                                  B. phosphorus  
C. iron    D. vitamin D

38. A candle lit at the middle of a dark room can be used to demonstrate that light
- spreads in all direction
  - travels in a straight line
  - can pass from one medium to another
  - can travel through coners
39. The diagram below was set up and used by pupils in a certain investigation.



The pupils were investigating

- mass of object p
  - force in object p
  - weight
  - speed on the block wood
40. A copper cable is fixed in buildings from top to underground to
- absorb electric waves
  - fix the security lights
  - absorb lightning charges
  - act as a magnet
41. To investigate water rentention in different soils pupils collected the following materials
- Plastic bottles
  - Cotton wool
  - Differenet types of soil
  - Water
  - Funnels
- Which of the following materials was also required?
- Manilla paper
  - Straws
  - Measuring cylinder
  - Source of heat
42. The diagram below shows an instrument that was made by pupils at Sukari presbyterian school.



- The instrument above works on the fact that
- air has indefinate shape
  - air has mass
  - liquids expand and contract
  - matter occupies space
43. Which of the following group consist of small animals found in the soil?
- Weaverbirds, earthworm, grasshopper
  - Moles, ants, beetles
  - Chameleon, millipede, frog
  - Scorpion, butterfly, moth
44. Which of the following simple tool belongs to the first class of levers?
- Crowbar
  - Wheelbarrow
  - Shovel
  - Spade
45. Which of the following statements is **false**?
- A crushed bottle top sinks in water
  - A maize cob floats due to its material
  - Ferries and ships float because of their size
  - When you fix a small nail on a maize cob they will both float
46. The following shows safety precautions when using a jembe **except**
- ensure the blade is fixed firmly on the handle
  - avoid raising the jembe too high
  - have a safe distance from other people
  - always look backwards when digging to avoid injuring other people
47. Animals are fed on a balanced diet for all following reasons **except** for
- proper growth
  - protection against attack by parasites
  - protection against diseases
  - increased production
48. Which of the following foods can be preserved by salting?
- Tea leaves and rice
  - Peas and potato tubers
  - Meat and fish
  - Fresh fruits and vegetables
49. A mixture of iron filings, flour and maize seeds can be separated by
- use of a magnet and picking
  - filtering and sieving
  - decanting and picking
  - sieving and picking
50. The following are function of saliva **except**
- making the food moist
  - sticking food particles together
  - making the boluses slippery
  - helps digest proteins