

# BRIGHT VISION SERIES

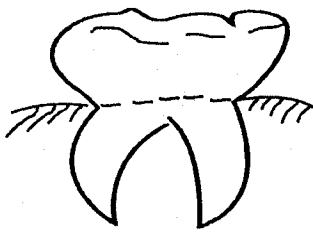
## STD. 8 - YEAR - 2023

### SCIENCE

Time: 1 Hr 40 Min.

1. In human body absorption of calcium takes place in
- stomach
  - large intestine
  - rectum
  - small intestine

2. The diagram below represents a certain type of human tooth.



The function of the tooth is

- gripping and tearing
  - tearing and grinding
  - crushing and grinding
  - biting and crushing
3. Which one of the following statement is true about the incubation stage of HIV infection?
- If HIV test is carried out, the result is negative.
  - This is the first stage of infection.
  - There are no visible signs.
  - The body cannot fight diseases.
4. A disease characterised by discharge of grey yellowish pus and burning sensation during urination is
- |               |             |
|---------------|-------------|
| A. gonorrhoea | B. syphilis |
| C. chancroid  | D. cholera  |
5. Which one of the following need not to be considered when modelling the solar system using clay balls?
- Size of the balls
  - Distance between the walls
  - Number of the balls
  - Mass of the balls

6. Which one of the following materials is not needed when making a liquid thermometer?

- Funnel
- Glass bottle
- Biro pen tube
- Manilla paper

7. The following are adaptations of plants that grow in dry areas except

- |                  |                    |
|------------------|--------------------|
| A. thick cuticle | B. flexible stem   |
| C. silvery hair  | D. succulent stems |

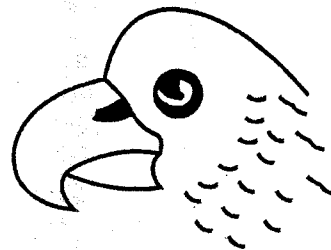
8. Which one of the following groups consists of storage pests?

- Cutworm, stalkborer, rat
- Aphid, weaverbird, mice
- White ant, mice, weevil
- Weevil, stalkborer, termite

9. Which one of the following statement is true?

- Fish have constant body temperature.
- Birds have varied body temperature.
- Young ones of amphibians live on land.
- Reptiles breath through lungs.

10. The diagram below represent a beak of a certain bird.



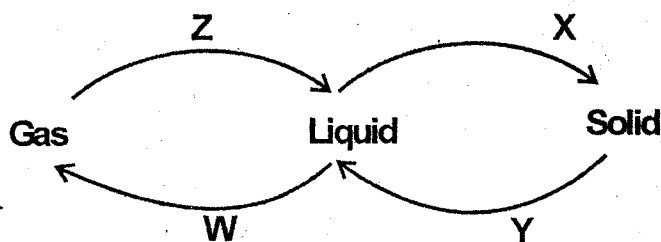
The bird represented is

- |                  |                  |
|------------------|------------------|
| A. filter feeder | B. grain eater   |
| C. flesh eater   | D. nectar feeder |

11. In which of the following activities is water used in industries?

- Cleaning tools and equipment
- Preparation of soft drinks
- Watering plants
- Surfing

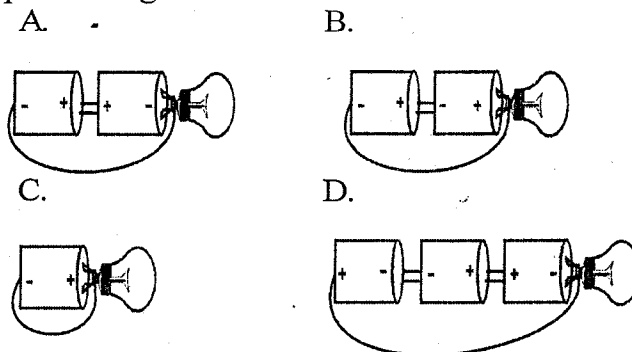
12. In order to conserve water, we should
- shade or mulch growing plants
  - irrigate crops by sprinkling
  - cultivate near river banks
  - using showers when bathing
13. When balancing on a sea-saw, a heavier person should
- move away from the pivot
  - move towards the pivot
  - move the pivot towards the lighter person
  - stand on the pivot
14. The following are methods of maintaining simple tools.
- Cleaning after use
  - Proper storage
  - Sharpening cutting edges
  - Proper use of tools
- Which pair consists **only** of methods for safety from accidents?
- (ii) and (iv)
  - (i) and (iv)
  - (ii) and (iii)
  - (i) and (iii)
15. Which one of the following components of air is used for making plant proteins?
- Carbondioxide
  - Inert gases
  - Oxygen
  - Nitrogen
16. Study the diagram below.



Which pair of processes are as a result of increase in temperature?

- Z and Y
  - W and X
  - W and Y
  - X and Y
17. Which one of the following statement is **true** about paraffin and oxygen?
- Both have definite volume
  - Both have definite mass
  - Both have definite shape
  - Paraffin has a definite shape while oxygen has an indefinite shape.

18. A mixture of salt solution, maize grains and iron filings can be separated by
- filtering, use of magnet, evaporation
  - decanting, picking, winnowing
  - filtering, decanting, evaporation
  - winnowing, use of magnet, picking
19. Which one of the following is **not** likely to produce light?



20. Which one of the following is a source of electricity?
- Torch
  - Dam
  - Solar panel
  - Biogas plant
21. Formation of a rainbow can be demonstrated by the following activities **except**
- observing the sun through a horizontally-held transparent biro pen casing.
  - placing a mirror in water to face the sun.
  - spraying water in the air from the mouth in bright sunshine.
  - placing a biro pen casing on water in a glass container.
22. Which of the following food groups consists of a balanced diet?
- Maize, ugali, chapati
  - Mutton, green banana, kales
  - Chicken, fish, beans
  - Pawpaw, orange, beans
23. A child showed the following signs and symptoms.
- Pale skin
  - Dizziness
  - Breathlessness
  - Fatigue
  - Felt like fainting
- Which deficiency disease was the child **likely** suffering from?
- Anaemia
  - Marasmus
  - Kwashiorkor
  - Rickets

24. Which one of the following materials will not make a shadow?

- A. Book                      B. Glass water  
C. Mirror                     D. Frosted glass

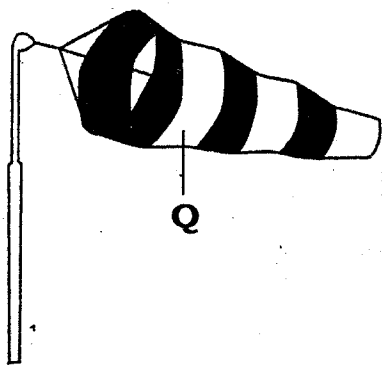
25. Which one of the following components of blood is **correctly** matched with its function?

<u>Blood component</u>	<u>Function</u>
A. Red blood cells	clotting of blood
B. White blood cells	transport of oxygen
C. Platelets	fight germs
D. Plasma	transport food

26. Which one of the following consists of social effects of drug abuse?

- A. Truancy, withdrawal, violence  
B. Rape, truancy, violence  
C. Impaired judgement, induced accidents, truancy  
D. Withdrawal, fit, coma

27. The diagram below shows a windsock



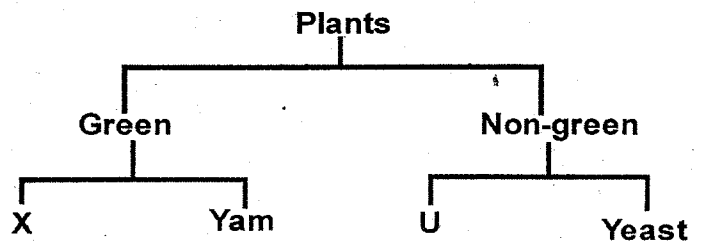
The best material for making the part marked Q is

- A. metal  
B. wood  
C. strong manilla  
D. strong polythene

28. Which of the following pairs consists of insectivorous plants?

- A. Pitcher plant and sundew  
B. Mushroom and butterwort  
C. Sunflower and pitcher plant  
D. Sundew and toadstool

29. The chart below shows a simple classification of plants.



Which one of the following pairs represent X and U?

X	U
A. Mould	toadstool
B. Bean	peas
C. Maize	mushroom
D. Puffball	rice

30. Which one of the following animals is **correctly** matched to the way it moves?

- A. Snake - crawling  
B. Frog - gliding  
C. Grasshopper - hopping  
D. Millipede - jumping

31. The method of grazing that would require the largest piece of land to practice is

- A. herding                      B. stall feeding  
C. tethering                    D. paddocking

32. Which one of the following is a common characteristic for both toad and duck?

- A. Varying body temperature  
B. Have scales  
C. Lay eggs  
D. Give birth to young ones

33. Which one of the following simple tools has the fulcrum between the load and the effort?

- A. Bottle opener              B. Claw hammer  
C. Spade                        D. Door hinges

34. In which one of the following is friction an advantage?

- A. Skating on ice  
B. Swimming in water  
C. Production of heat in moving parts  
D. Braking of a bicycle on a road

35. A metal bowl weighing 500g floats on water while a steel nail weighing 100g sinks in the same water. This is due to difference in;

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

36. In making utensils, poor conductors of heat are used as,

- A. radiators  
B. metal lids  
C. insulators  
D. stirring utensils

37. Which one of the following is not a way of conserving water?

- A. Building dams  
B. Mulching  
C. Clearing vegetation  
D. Harvesting rain water

38. When small pieces of papers are dropped above a fire they rise. This is due to

- A. convection in liquids  
B. convection in air  
C. conduction in air  
D. conduction in solids

39. Which one of the following is a safety measure against lightning when it is raining?

- A. Wearing rubber shoes  
B. Leaning against the wall  
C. Using an umbrella  
D. Walking in open fields

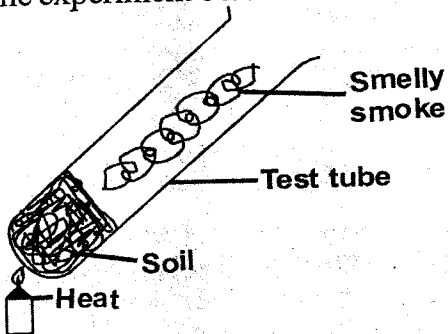
40. Lack of iron in the diet leads to

- A. marasmus  
B. rickets  
C. goitre  
D. anaemia

41. Which one of the following soil conservation measures is **least** suitable on a large piece of land?

- A. Terracing  
B. Tree planting  
C. Mulching  
D. Contour farming

42. The experiment below shows that soil has



- A. water  
B. air  
C. mineral particles  
D. humus

43. While on a nature walk, class four pupils noticed a plant which had several green fruits and purple flowers. The plant was **likely** to be

- A. mexican marigold  
B. sodom apple  
C. black jack  
D. oxalis

44. Which of the following groups only consists of non-magnetic materials?

- A. Tin, steel, alnico  
B. Piece of glass, copper, iron  
C. Aluminium, copper, silver  
D. Staple pin, aluminium, nickel

45. Which one of the following media of communication is likely to reach the largest number of people within the shortest time possible?

- A. Television  
B. Radio  
C. Mobile phone  
D. Magazines

46. A pupil who buys mangoes from the market and eats without washing is likely to be infected with

- A. cholera and typhoid  
B. bilharzia and malaria  
C. typhoid and malaria  
D. cholera and bilharzia

47. Which one of the following vaccines is **correctly** matched with the time it is administered?

- A. Polio - 2½ months  
B. Tetanus - 9 months  
C. BCG - 6 weeks  
D. Measles - 3½ months

48. Which one of these is **not true** about clouds which symbolize fine weather?

- A. Have a flat base  
B. Are called cumulus  
C. Have round masses  
D. Are found in the sky

49. Which one of the following attaches itself on the uterus wall to develop into a baby?

- A. Ovum  
B. Foetus  
C. Embryo  
D. Zygote

50. Which one of the following correctly shows the path taken by urine from the kidneys?

- A. Ureter → urethra → bladder  
B. Urethra → ureter → bladder  
C. Ureter → bladder → urethra  
D. Urethra → bladder → ureter