

# DISTINCTION SCHOOL BASED ASSESSMENT TEST

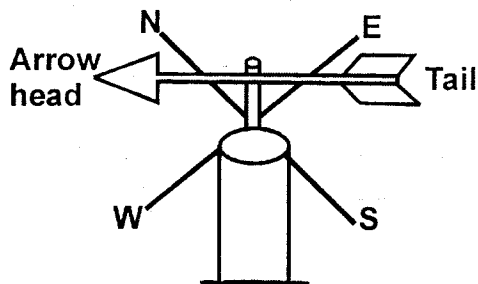
## STANDARD EIGHT - 2020

# 8

### SCIENCE

**PREMIER***Time: 1Hr 40mins*

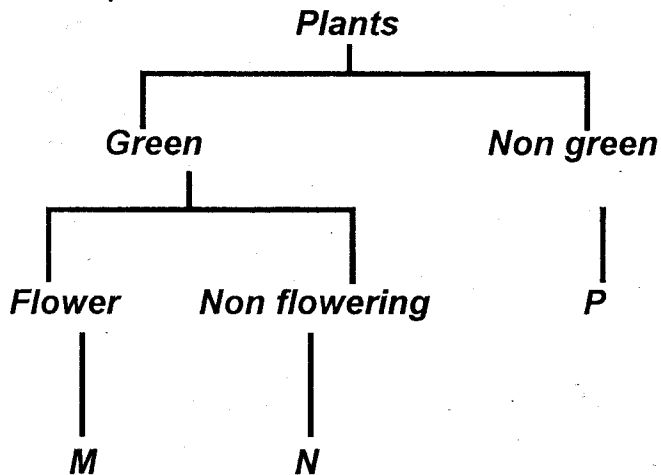
- When breathing in;  
A. ribs moves upwards and inwards  
B. the volume of the chest increases  
C. pressure in the lungs decreases  
D. the diaphragm become flat.
- An empty metallic ship floats on water because of  
A. materials  
B. weight  
C. size  
D. shape.
- The blood vessels that carries blood from the lungs to the heart and from the heart to the body respectively are  
A. pulmonary vein and aorta  
B. vena cava and aorta  
C. pulmonary artery and aorta  
D. aorta and vena cava.
- In the female reproductive system, a zygote is formed in the  
A. womb  
B. vagina  
C. ovary  
D. oviduct.
- Which one of the following vaccines is administered at birth?  
A. BCG  
B. Anti-measles  
C. DPT  
D. Anti-malaria
- Which one of the following animals does **not** breast feed its young ones?  
A. Whale  
B. Bat  
C. Shark  
D. Seal
- The windvane below was made by pupils using materials found in their school.



- Which one of the following statements is **incorrect** about the instrument above?
- It shows the wind direction.
  - The arrow head should be small than the tail.
  - It should be place away from buildings.

- Its arrowhead points the direction where the wind is blowing to.
- Which one of the following livestock parasites attacks the livestock without living on it?  
A. Tick  
B. Tsetse fly  
C. Flea  
D. Mite
- Which type of teeth below is **incorrectly** matched with its function?  
A. Canine - cutting  
B. Incisors - biting  
C. Premolar - chewing  
D. Molar - grinding
- What is cross pollination?  
A. The transfer of pollen grains from anthers to stigma.  
B. The transfer of pollen grains from the anthers of one flower to the stigma of another flower in the same plant.  
C. The transfer of pollen grains from anther to stigma of different flowers of different kinds.  
D. The transfer of pollen grains from the anthers of one flower to the stigma of another flower on different plants but of the same kind.
- Which one of the following explains the function of white blood cells?  
A. Combine with oxygen.  
B. Fight the disease causing germs.  
C. Carry digested food materials.  
D. Clothing the blood.
- Which animals provides mutton and dairy?  
A. Sheep  
B. Cows  
C. Goats  
D. Pigs
- Children born to a smoking mother during pregnancy are **least** likely to be  
A. underweight  
B. having weak immunity  
C. having poor mental growth  
D. strong and healthy
- Which one of the process following takes place immediately after sperms cell and ovum unite?  
A. Fertilization  
B. Ovulation  
C. Implantation  
D. Menstruation

15. The chart below shows the classification of plants.

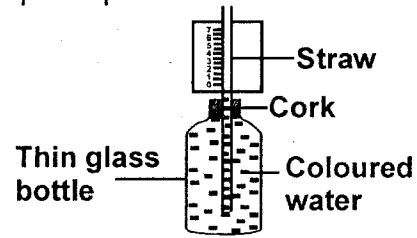


Which one of the following **correctly** shows the plant represented by letters **M**, **N**, and **P**?

	<b>M</b>	<b>N</b>	<b>P</b>
A.	Maize	Ferns	Cypress
B.	Lichen	Algae	Mushroom
C.	Beans	Cactus	Puff balls
D.	Acacia	Cedar	Toadstool

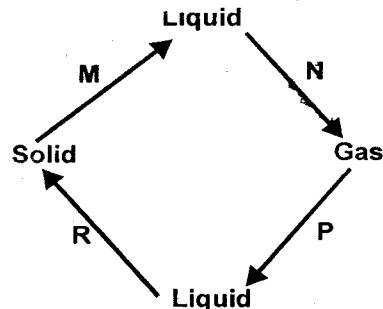
16. Which one of the following shows major non-living components of environment?  
 A. Animals, plants.  
 B. Sound, light, heat.  
 C. Soil, stones, plants.  
 D. Soil, air, water.
17. The **most** effective method of controlling the spread of HIV/AIDS among the youth is by  
 A. being faithful  
 B. abstinence  
 C. using condoms  
 D. having only one partner.
18. Miraa, tobacco and alcohol have one thing in common which one is it? They are  
 A. narcotic  
 B. prohibited in Kenya  
 C. not illegal in Kenya  
 D. depressants.
19. Which one of the following does **not** show how plants and animals depend on each other?  
 A. Animals getting shade.  
 B. Birds sheltering on trees.  
 C. Pollination.  
 D. Animals getting carbon dioxide from green plants.

20. The diagram below shows an improvised simple liquid thermometer.



Which one of the following would make it measure slight changes in temperature?

- A. Tightening the cork.  
 B. Making the straw and small narrower.  
 C. Raising the temperature.  
 D. Adding more coloured water.
21. In a food chain, cabbages can be classified under  
 A. decomposers  
 B. primary consumers  
 C. tertiary consumers  
 D. producers.
22. When carrying out an experiment on drainage in soil, what does **not** need to be the same?  
 A. Amount of water.  
 B. Size of the funnel.  
 C. Amount of the soils.  
 D. The type of the soil.
23. The illustration below shows the changes of states in matter.

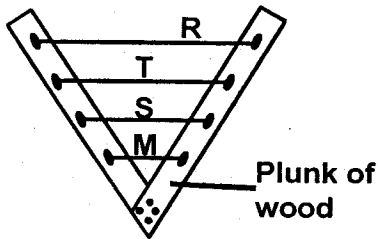


Which two processes require an increase in temperature?

- A. M and N  
 B. P and R  
 C. M and R  
 D. N and P
24. Heat from the sun reaches the leaves of the plants through a process called  
 A. Radiation  
 B. Convection  
 C. Conduction  
 D. Induction.
25. Below are characteristics of matter.  
 (i) **Definite shape.** (ii) **Definite size.**  
 (iii) **Definite mass.**  
 Which one of the above **best** describe paraffin?  
 A. (i) and (ii)  
 B. (i) and (iii)  
 C. (ii) and (iii)  
 D. None

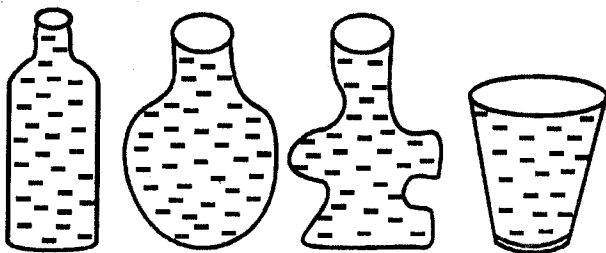
26. The second and seventh planets in the solar system respectively are;
- Venus and Uranus
  - Earth and Uranus.
  - Venus and Saturn.
  - Earth and Neptune.

27. Wires of the same material and thickness but of different lengths labelled R, T, S and M were fixed on a wooden plank as shown below.



Which wire produced the **highest** sound when plucked?

- |      |      |
|------|------|
| A. M | B. S |
| C. T | D. R |
28. Which one of the following is **not** a function of leaves of a green plant?
- |               |                   |
|---------------|-------------------|
| A. Breathing  | B. Transpiration  |
| C. Absorption | D. Photosynthesis |
29. Which one of the following is **not** a cereal crop?
- |          |            |
|----------|------------|
| A. Maize | B. Oats    |
| C. Beans | D. Sorghum |
30. Which crop pest below is **not correctly** matched with the part of the plant it attacks?
- |                 |                         |
|-----------------|-------------------------|
| A. Aphids       | - All kinds of grains   |
| B. Weaver birds | - Grains of cereals     |
| C. Stalk borers | - Inside of the stems   |
| D. Cut worms    | - Stem of young plants. |
31. Std 5 pupils transferred some amount of water in different containers as shown below.

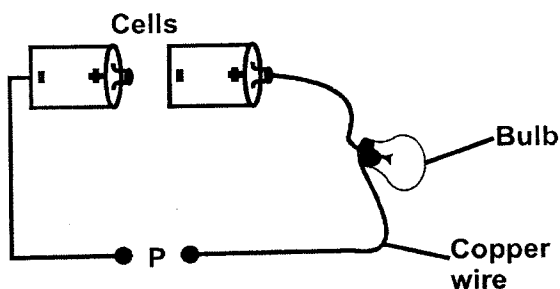


It is possible to conclude that liquids

- |                                       |
|---------------------------------------|
| A. occupies space.                    |
| B. have definite mass and shape.      |
| C. exerts pressure in all directions. |
| D. takes the shape of the containers. |

32. Which parts of a flower makes the male parts?
- |                          |
|--------------------------|
| A. Anthers and stigma.   |
| B. Stigma and style.     |
| C. Petal and ovules.     |
| D. Filament and anthers. |
33. Which one of the following weeds has thorns and green fruits which turn yellow when ripe?
- |                  |                |
|------------------|----------------|
| A. Oxalis        | B. Sodom apple |
| C. Wondering jew | D. Black jack  |
34. Which one of the following is **not** an effect of livestock diseases?
- |                          |
|--------------------------|
| A. Blood in the stool.   |
| B. Reduced yield.        |
| C. Low quality products. |
| D. Death.                |
35. Which small animals below is **not** classified in the same group as spider?
- |         |             |
|---------|-------------|
| A. Mite | B. Scorpion |
| C. Tick | D. Crab     |
36. Which one of the following is **not** a use of water in the industries?
- |                             |
|-----------------------------|
| A. Making fountains.        |
| B. Cleaning coffee berries. |
| C. Cooling machines.        |
| D. Irrigation.              |
37. When fertilizer is used excessively to improve the quality of the soil, it may lead to
- |                        |
|------------------------|
| A. water pollution     |
| B. soil erosion        |
| C. air pollution       |
| D. poor soil drainage. |
38. Sheet erosion can be controlled by
- |                           |
|---------------------------|
| A. building gabions.      |
| B. terracing              |
| C. planting cover crops   |
| D. making cut off drains. |
39. What is the importance of adding manure when preparing compost manure?
- |                                      |
|--------------------------------------|
| A. Introduce decomposers.            |
| B. Supply additional nutrients.      |
| C. Spread the rate of decomposition. |
| D. Aerate the compost.               |
40. Which one of the following methods of food preservation dehydrates food?
- |                           |
|---------------------------|
| A. Canning                |
| B. Freezing               |
| C. Use of low temperature |
| D. Drying.                |

41. The diagram below shows a simple electric circuit made by Std 7 pupils.

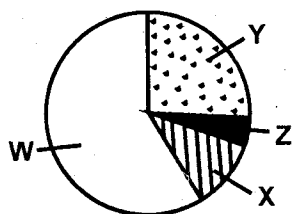


Which materials can be used in the gap marked **P** to make the bulb to light?

- A. Aluminium foil
  - B. Stick
  - C. Plastic ruler
  - D. Paper
42. During a class experiment, pupils mixed all the liquids below in one glass bottle.
- (i) **Water**
  - (ii) **Milk**
  - (iii) **Kerosene**
  - (iv) **Cooking oil**

How many layers were formed after mixing?

- A. 1
  - B. 2
  - C. 3
  - D. 4
43. Which one of the following is the **most** effective methods of separating a mixture of insoluble solid from liquid?
- A. Filtering
  - B. Winnowing
  - C. Sieving
  - D. Decantation
44. The chart below shows air composition.

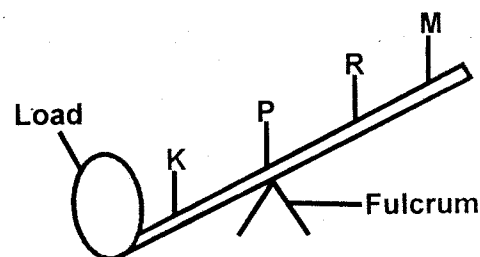


Which letter above shows the part of air used for rusting of iron nails?

- A. W
  - B. X
  - C. Z
  - D. Y
45. The soil that holds the **least** amount of water
- A. has the highest capillarity
  - B. makes the longest ribbons
  - C. has the largest air spaces
  - D. is sticky when wet.

46. The force that opposes movement is measured using
- A. spring balance
  - B. weight scale
  - C. beam balance
  - D. kilograms

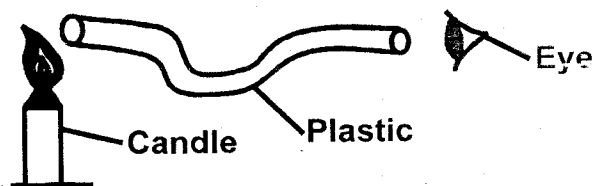
47. The diagram below shows a lever in use.



In order to make work easier, effort should be applied at the point marked

- A. K
  - B. P
  - C. R
  - D. M
48. Which one of the following is **not** a source of electricity?

- A. Dynamol
  - B. Dry cells.
  - C. Solar panel
  - D. Torch
49. The diagram below was used by Std 6 pupils to investigate a certain property of light.



Which property of light were they investigating?

- A. Light travel in all directions.
  - B. Reflection of light.
  - C. Light travels in a straight line.
  - D. Refraction of light.
50. What is convection?
- A. Transfer of heat through solids.
  - B. Transfer of heat through liquids and gases.
  - C. Transfer of heat through liquids only.
  - D. Transfer of heat through vacuum.