1. In which part of the digestive system does bile from the liver mix with food?
   A. Ileum
   B. Colon
   C. Duodenum
   D. Oesophagus

2. Which one of the following is a common physical change in both boys and girls?
   A. Pimples may appear on the face
   B. Breasts grow bigger
   C. Hair grow on the chest
   D. Hips become broader

3. The diagram below shows the position of fulcrum, effort and load of a certain lever.

   ![Lever Diagram]

   Which one one of following pair of levers has the same arrangements as that of the lever shown above?
   A. Wheelbarrow, claw hammer
   B. Coal tongs, sweeping broom
   C. See-saw, pair of scissors
   D. Claw hammer, crowbar

4. Which one of the following properties of gases changes when it is heated and then cooled?
   A. Density
   B. Mass
   C. Weight
   D. Volume

5. Ben removed the testa of a germinating bean seen and opened it as shown below.

   ![Bean Diagram]

   The part labelled X
   A. becomes the plumule
   B. support the shoot
   C. is the seed leaves
   D. becomes first roots of the plant

6. The diagram below shows different phases of the moon.

   ![Moon Phases Diagram]

   Which of the following phases of the moon is seen in the West after sunset?
   A. W
   B. Y
   C. X
   D. Z

7. The diagram below represents a straw fitted in airtight glass bottle containing a liquid.

   ![Straw and Bottle Diagram]

   The sucking of the liquid is difficult because
   A. the straw does not reach the bottom
   B. air pressure does not act on the liquid
   C. the liquid does not fill the bottle
   D. the air inside the straw prevents the liquid from rising.

8. The table below shows characteristics of some invertebrates.

<table>
<thead>
<tr>
<th>Name</th>
<th>Number of body parts</th>
<th>Number of Legs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mosquito</td>
<td>3</td>
<td>X</td>
</tr>
<tr>
<td>Y</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>Weevil</td>
<td>Z</td>
<td>6</td>
</tr>
</tbody>
</table>

   X, Y and Z represents:
   A. 8 cockroach 3
   B. 6 Spider 2
   C. 6 tick 3
   D. 3 crab 2
9. Which one of the following sexually transmitted disease is not caused by bacteria?
   A. Chancroid  B. Genital herpes  C. Gonorrhoea  D. Syphilis

10. Akello went to a hospital, after treatment she was told to eat dark green vegetables, red meat and liver. Which one of the following disease was he suffering from?
    A. Anaemia  B. Marasmus  C. Choler  D. Kwashiorkor.

11. The diagram below shows a process that occurs in green plants

   ![Diagram of a plant with a branch, leaf, water droplets, and polythene paper.]

   Which one of the following factors will not increase the rate at which the above process occur?
   A. Increase in temperature  B. Surface area of the leaf  C. Number of stomata  D. Wind direction.

12. Below is a diagram showing the female reproductive system.

   ![Diagram of the female reproductive system with a label X.]

   Which one of the following is not true about the part labelled X?
   A. Fertilization takes place here  B. Holds the ovaries firmly in place  C. Pregnancy can take place here  D. The path taken by the ovaries to the uterus.

13. All of the following are magnetic materials EXCEPT
   A. Iron  B. Steel  C. Aluminium  D. Cobalt.

14. Which crop pest is wrongly matched to the part of the plant it attacks?

<table>
<thead>
<tr>
<th>Pest</th>
<th>Part</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Aphids</td>
<td>leaves</td>
</tr>
<tr>
<td>B. Stalkborer</td>
<td>stem</td>
</tr>
<tr>
<td>C. Locusts</td>
<td>leaves</td>
</tr>
<tr>
<td>D. Cucumber moth</td>
<td>leaves</td>
</tr>
</tbody>
</table>

15. Below is a diagram representing a xerophyte

   ![Diagram of a xerophyte with a label X, Y, Z, and W.]

   Which part of the plant is adapted to prevention of loss of excess water?
   A. Y  B. W  C. X  D. Z.

16. Pupils of Mauko primary set up an experiment to investigate capillarity in different soils as shown below. It was noted that water rose to different levels. Which type of soil had the roughest texture?

   ![Diagram of water rising in different soils with labels X, W, Y, and Z.]

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

17. Below is an illustration of soil conservation method called

   ![Diagram of a terraced field.]

   A. Terracing  B. Gabions  C. Step farming  D. Contour ploughing.

18. In a food chain green plants are referred to as

   A. Consumers  B. Secondary consumers  C. Producers  D. Decomposers.
19. A pupil filled a glass with water and then covered it with a stiff paper. He then turned it upside down and held up as shown below.

![Diagram of a glass with water and stiff paper]

What were the pupils investigating?
A. air has weight  
B. air exerts pressure  
C. air occupies space  
D. water exerts pressure

20. Which medium transmits sound best and effectively?
A. Vacuum  
B. water  
C. Air  
D. Solids

21. The method of grazing method shown below is most likely to be

![Diagram of grazing methods]

A. Step grazing  
B. Tethering  
C. Zero grazing  
D. Paddocking

22. The diagram below shows processes P, Q, R, S, which brings about changes of state matter.

![Diagram showing changes of state]

Which two processes represent condensation and freezing?
A. P and S  
B. Q and R  
C. P and Q  
D. R and S

23. HIV patients require enough roughage in their diet to prevent
A. diarrhoea  
B. ulcers  
C. constipation  
D. vomiting

24. Ofuto was walking along the road and was bitten by a snake. Which blood vessels did the poison enter the heart?

25. Which pair of drugs causes lung disease and liver cirrhosis respectively?
A. Tobacco and alcohol  
B. Khat and tobacco  
C. Bhang and tobacco  
D. Alcohol and khat

26. The diagram below is of a rain gauge. What should be the measurement of the parts marked X and Y respectively?

![Diagram of a rain gauge]

A. 30cm and 15cm  
B. 15cm and 30cm  
C. 35cm and 25cm  
D. 40cm and 15cm

27. The following maintenance practices on farm tools. Which one cannot be applied on a jembe?
A. Replacing parts  
B. Filing  
C. Greasing  
D. Washing

28. The units for measuring weight are
A. tonnes  
B. newtons  
C. kilograms  
D. joules

29. In which one of the following set ups will the bulb light brightest?

![Diagram of bulb set ups]

A.  
B.  
C.  
D.  

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30. The chart below represents a simple classification of non-flowering plants

Non-flowering plants

Reproduce by spores reproduced by cell division

Mosses Fern Y Z Bacteria

The part Y and Z represent _______ and _______ respectively

A. pine mushroom
B. lichens algae
C. conifers spirogyra
D. mould podo

31. Which of the following components of the air will make 22% in volume when put together?
A. Inert gases and carbon dioxide
B. Nitrogen and oxygen
C. Oxygen and inert gases
D. Carbon dioxide and oxygen

32. Re-use water involves _______
A. harvesting rain water
B. using drip irrigation
C. making dams to tap run-off water
D. using dirty water from kitchen for watering plants.

33. The third polio vaccine is given to an infant at the age of
A. 6 weeks
B. 10 weeks
C. 9 months
D. 14 weeks

34. The following are sources of light which one is not?
A. Candle
B. Electricity
C. Torch cell
D. Lamp

35. The fact that we are protected by the roof from sunlight shows that
A. the roof reflects all the light that falls on it
B. the roof absorbs all the light that comes to it
C. light travels in straight lines
D. light travels around and comes through windows

36. The following are internal livestock parasites EXCEPT
A. flukes
B. roundworms
C. tapeworms
D. ringworms

37. Which of the following bottles will produce the lowest sound when blown and struck respectively.

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

38. Which one of the following weather instruments is NOT correctly matched with its function?
A. Anenometer - speed of wind
B. Windsock - strength of wind
C. Wind vane - direction of air
D. Thermometer - temperature of wind

39. The diagram below was set up by standard 5 pupils of Siribo primary school

Whirling paper

Candle

The pupils were likely to be investigating
A. good and poor conductors of heat
B. convectional current in air
C. radiation of air
D. conductivity of heat in solids

40. A bird is able to fly because of the following adaptations except
A. have wings
B. have hollow bones
C. have bones with marrow
D. have streamlined bodies
41. Mulching of crops is **mainly** done to
   A. control soil erosion
   B. improve soil fertility
   C. control pests and diseases
   D. conserve soil moisture

42. Study the diagram below about a rainbow.
   The rainbow from a mirror and water is caused by
   
   ![Rainbow Diagram]

   A. refraction of light
   B. dispersion of light
   C. reflection of light
   D. bouncing of light

43. The requirement of iron by pregnant and lactating mothers ensure
   A. sufficient blood
   B. good health
   C. growth of bones and teeth
   D. sufficient energy for walking

44. Ash is used to preserve food like beans, peas and green grams because
   A. it keeps off pests
   B. it kills pests
   C. it keeps pests busy
   D. it controls diseases

45. Which one is **NOT** a safety measure when dealing with current electricity?
   A. Avoid inserting objects into electric sockets
   B. Not overloading sockets
   C. Avoid using appliances with damaged wires
   D. Touching sockets with wet hands

46. Which one of the following statements about vertebrates is **TRUE**?
   A. Fish and birds have constant body temperatures
   B. Amphibians and reptiles lay their eggs on land
   C. Fish and amphibians have scales
   D. Reptiles and birds lay fertilized eggs

47. Which one of the following consists of **only** characteristics of insect pollinated flowers?
   A. Brightly coloured petals, sticky pollen grains
   B. Light pollen grains, sweet scented
   C. Brightly coloured petals, light pollen grains
   D. sweet scented, large number of pollen grains

48. Which one of the following statements is **not** correct about a windsock?
   A. Gets filled with air and rises
   B. Points to the direction from which wind blows
   C. Is open at both ends
   D. Should be placed in the open field

49. Which one of the following **BEST** described the term environment?
   A. Where human beings live
   B. The home of a living organism
   C. The surrounding of a living organism
   D. Where living organisms obtain food from

50. The force of that opposes movement is important in
   A. walking down hill
   B. riding an airless bicycle
   C. walking on a rocky road
   D. pushing a crate of soda on the floor