

**Class 7 mid-term 1 August 2021 Science**

1. The diagram below shows a mammalian heart.



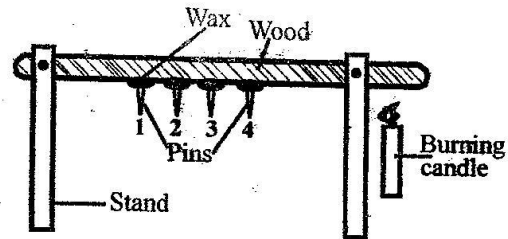
Which of the statements below is true?  
Chamber

- A. O pumps blood to all body parts.  
B. P pumps blood to the lungs.  
C. M receives blood from the lungs.  
D. N receives blood from the lungs.
2. The following are functions of parts of a plant;
- Holding plants firmly in the soil.*
  - Storage of food.*
  - Absorption of water and mineral salts.*
  - Making food.*
  - Transport of water to the leaves.*
- Which two functions are performed by all roots?
- A. i and iii                      B. ii and iv  
C. iii and iv                     D. i and v
3. Which of the following is **not** a use of light in the house? Light
- A. discourages pests.  
B. enhances comfortable reading.  
C. makes the house tidy.  
D. minimises accidents.
4. Which of the following pairs of plants are green but non-flowering?
- A. Cypress and moulds  
B. Fern and algae  
C. Mushroom and grass  
D. Algae and beans
5. The materials which form shadows when light falls on them are known as
- A. opaque materials  
B. translucent materials  
C. transparent materials  
D. circular materials

6. Which one of the following is a function of fibre in the human diet?
- A. It helps in digestion.  
B. It adds nutrients to the body.  
C. It helps in getting rid of undigested food.  
D. It helps in absorption of digested food.

7. Which one of the following animals has a constant body temperature, scales on the leg and breathes through the lungs?
- A. Crocodile                      B. Whale  
C. Newt                             D. Chicken

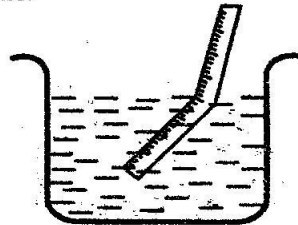
8. Below is an experiment done by pupils during a Science lesson.



Which one is a possible observation made from the set up?

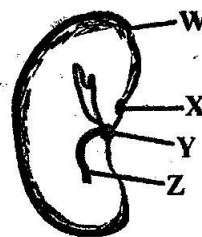
- A. All pins fell at the same time.  
B. No pin fell.  
C. Pin 4 fell off first.  
D. Pin 1 fell off last.
9. Which one of the following is **not** a rotational method of grazing?
- A. Strip grazing  
B. Tethering  
C. Zero grazing  
D. Paddockging
10. Which one of the following groups consists of a balanced diet?
- A. Beans, carrot, orange  
B. Ugali, chicken, milk  
C. Kales, green bananas, cassava  
D. Rice, peas and mango

11. The following are recreational uses of water **except**  
 A. irrigation                      B. boat racing  
 C. fishing                            D. surfing
12. Which one of the following pairs of teeth are used for tearing and cutting respectively?  
 A. Incisors and premolars  
 B. Canines and incisors  
 C. Molars and incisors  
 D. Premolars and molars
13. Which one of the following diseases can **best** be controlled by covering pit latrines?  
 A. Cholera  
 B. Bilharzia  
 C. Typhoid  
 D. Tuberculosis
14. Which one of the following materials can change into three different states of matter?  
 A. Wood                              B. Stone  
 C. Oxygen                            D. Ice
15. Insect pollinated flowers  
 A. produce light pollens.  
 B. have small petals.  
 C. have sticky pollen grains.  
 D. have brightly coloured petals with no scent.
16. Which of the following methods of food preservation prevents air and bacteria from reaching the food?  
 A. Use of honey  
 B. Canning  
 C. Use of low temperatures  
 D. Salting
17. Soil that drains water very fast also has all the following physical properties **except**  
 A. the highest capillarity.  
 B. large air spaces.  
 C. difficulty in making ribbons.  
 D. ease in spreading.
18. A machine used to compare masses of objects is known as a  
 A. see-saw  
 B. lever  
 C. spring balance  
 D. beam balance
19. Which one of the following is a common physical change in boys and girls?  
 A. Breast enlargement  
 B. The broadening of hips  
 C. Growth of pubic hair  
 D. Growth of facial hair.
20. When a ruler is half immersed in a glass of water in a slanted position, it will appear to bend.



The apparent bending of the pencil is as a result of

- A. reflection of light.  
 B. light passing through a medium.  
 C. breaking of the water.  
 D. refraction of light.
21. Which pair of vaccines are administered to a child at birth?  
 A. DPT and measles  
 B. BCG and anti polio  
 C. Yellow fever and typhoid  
 D. DPT and polio
22. Below is a diagram of a bean seed.

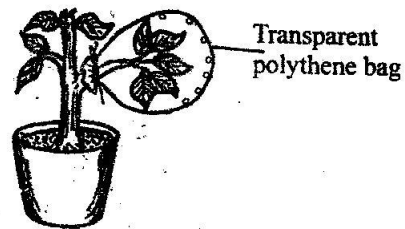


Which part protects the seed?

- A: W                                  B: Y  
 C: X                                  D: Z
23. It is **true** to say that convection is the transfer of heat in  
 A. solids only  
 B. liquids only  
 C. liquids and gases  
 D. gases only

24. Which characteristic of matter can be changed to make a sinker float?  
 A. Size                      B. Shape  
 C. Material                  D. Mass
25. The component of air whose percentage is 0.03% is used for  
 A. making plant food.  
 B. making bulbs and tubes.  
 C. breathing by animals.  
 D. germination by seeds.
26. In the alimentary canal, water is absorbed in the  
 A. large intestines      B. small intestines  
 C. rectum                      D. stomach
27. A child was observed to have the following signs;  
 i. *Loose skin*  
 ii. *Swollen stomach*  
 iii. *Brownish and thin hair*  
 iv. *Sores at the corners of the mouth.*  
 The child should be fed on  
 A. spinach                  B. oranges  
 C. Irish potatoes          D. termites
28. Clouds which have a flat base are also likely to be  
 A. dark grey  
 B. low in the sky  
 C. high in the sky  
 D. a sign of heavy rainfall
29. Which one of the following groups of crops consists of fibre crops **only**?  
 A. Cotton, sisal, flax  
 B. Barley, sisal, flax  
 C. Sisal, coconut, simsim  
 D. Palm tree, coconut, cashewnuts
30. Which one of the following animal feeds are given as supplements?  
 A. Bran and molasses  
 B. Lucern and clover  
 C. Napier grass and salt lick  
 D. Glycene and kale
31. The following are means of transporting water **except** using  
 A. cans                      B. taps  
 C. tankers                    D. pipes

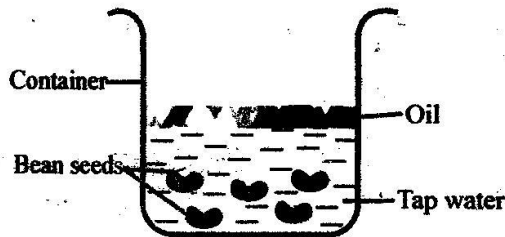
32. Which one of the following weather instruments would show **both** the strength and direction of wind?  
 A. Rain gauge  
 B. Thermometer  
 C. Windsock  
 D. Windvane
33. Grade 5 pupils set up the experiment shown below.



- The pupils were likely to be investigating  
 A. transportation in plants  
 B. absorption in plants  
 C. breathing in plants  
 D. transpiration in plants.
34. Which of the following groups of animals consists of invertebrates **only**?  
 A. Newt, cockroach, spider  
 B. Snail, spider, mite  
 C. Slug, crab, frog  
 D. Centipede, snake, scorpion
35. Which one of the following is the **most** effective way of controlling the spread of malaria?  
 A. Applying mosquito repellent jelly  
 B. Sleeping inside a treated mosquito net  
 C. Destroying mosquito breeding places  
 D. Spraying mosquitoes with insecticides.
36. The type of soil erosion that is characterised by the even carrying away of the top soil and is not easily noticeable is called  
 A. splash erosion      B. rill erosion  
 C. gulley erosion      D. sheet erosion
37. Which parts of a seed form the embryo?  
 A. Plumule and radicle  
 B. Cotyledon and testa  
 C. Endosperm and hilum  
 D. Micropyle and scar



38. When breathing in, the  
 A. ribs move inwards.  
 B. diaphragm flattens.  
 C. lungs contract.  
 D. volume of the chest reduces.
39. In which stage of HIV/AIDS development does the person look healthy, tests negative but has the virus?  
 A. Symptomatic      B. Full blown  
 C. Window            D. Incubation
40. The following are effects of sound pollution **except**  
 A. deafness  
 B. good reasoning  
 C. irritation  
 D. lack of concentration
41. Which one of the following is **not** a reason for maintenance of tools?  
 A. For efficiency  
 B. For durability  
 C. To minimise wear and tear  
 D. To make them attractive
42. The diagram below represents a set-up that was used to investigate a certain condition necessary for germination.



- What was observed after some days?  
 A. The seeds did not germinate.  
 B. The seeds germinated.  
 C. The water in the container changed colour.  
 D. The seeds dried up.
43. Reflection of light can be used in the following ways **except** in making  
 A. side mirrors  
 B. periscopes  
 C. car windscreens  
 D. plane mirrors
44. The **main** reason of digging a rain gauge 15 cm into the ground is to  
 A. collect a lot of rain water.  
 B. prevent water from splashing into the rain gauge.  
 C. make it firm.  
 D. reduce evaporation of collected water.
45. Which of the following planets has the longest orbit?  
 A. Neptune            B. Uranus  
 C. Jupiter              D. Saturn
46. In order for a force to stop a moving object, the force applied must be  
 A. less than that of the moving object.  
 B. in the opposite direction as that of the moving object.  
 C. half of the moving objects.  
 D. in the same direction as that of the moving object.
47. The **main** reason why farmers are encouraged to control weeds is to  
 A. avoid loss of nutrients.  
 B. conserve soil moisture.  
 C. control the spread of weeds.  
 D. allow sunlight to reach the crops.
48. All of the following are social effects of drug abuse **except**  
 A. drug induced accidents  
 B. conflicts  
 C. truancy  
 D. lack of concentration
49. The following are safety measures taken when handling chemicals **except**  
 A. covering the nose with protective gear.  
 B. washing hands before spraying.  
 C. spraying when there are no occupants.  
 D. removing food and water from the kitchen before spraying.
50. The following are factors that increase the rate of soil erosion. Which one is an example of human activity?  
 A. Road construction and quarrying  
 B. Steep slope of land  
 C. Heavy rainfall  
 D. Bareness of the soil