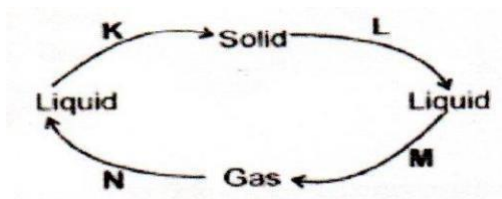


KCPE PREDICTION 2020  
SCIENCE

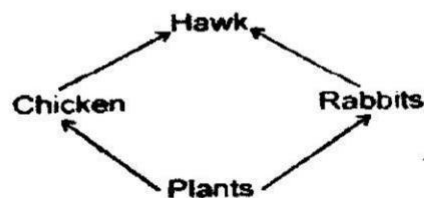
- Which one of the following methods of food preservation renders the bacteria inactive and not dead?
  - Drying
  - Salting
  - Smoking
  - Use of low temperature
- The diagram below shows change of state in matter



Which letter represents the process of melting

- K
  - L
  - M
  - N
- The movement of heat through liquids such as water takes place by
    - Conduction
    - Radiation only
    - Convection only
    - Radiation and convection
  - Which one of the following materials is non-magnetic?
    - Iron rod
    - Aluminum foil
    - Cobalt strip
    - Nickel coin
  - External livestock parasites can be controlled through the following ways **EXCEPT?**
    - Deworming
    - Spraying
    - Dipping
    - Rotational grazing
  - Which one of the following pairs **DOES NOT** constitute the living parts of the environment?
    - Animals and Soil
    - Plants and Water
    - Light and Air

- Sound and Plants
- Gulley erosion can be **BEST** controlled by;
    - Making terraces
    - Mulching
    - Digging trenches
    - Constructing porous dams
  - Which one of the following is **NOT** an effect of water pollution on animals and plants life?
    - Leading to soil infertility
    - Leading to infection on animals
    - Destruction of aquatic plants
    - Blockage of root hairs.
  - The diagram below represents a food chain.



Which one of the following will belong to the same group as the Leopard?

- Hawk
  - Chicken
  - Rabbit
  - Plants
- Which one of the following crops is **NOT** attacked by stalk borers?
    - Maize
    - Beans
    - Sugarcane
    - Sorghum
  - The following are characteristics of insect pollinated flower. Which one is **NOT**
    - Large coloured petals
    - Brightly coloured sepals.
    - Nectary at the base of the flower
    - Heavy and sticky pollen grains
  - Internal livestock parasites can **MAINLY** be controlled by;
    - Rotational grazing

- B. Spraying
- C. Drenching
- D. Dipping

13. Which one of the following is **NOT** a product contained from goat?

- A. Mohair
- B. Dairy milk
- C. Mutton
- D. Hide

14. The pie chart below shows the approximate composition of air

Which part represent the part of the air required for germination to take place?

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

15. The method of grazing where animals are fed on fodder and commercial feed within a permanent enclosure is referred to as?

- A. Herding
- B. Paddocking
- C. Stall feeding
- D. Tethering

16. Which one of the following contributes greatly to the growth and maintenance of body tissues in livestock?

- A. Wheat germ
- B. Lucern
- C. Maize bran
- D. Salt

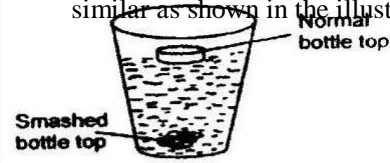
17. Which one of the following blood components protects the body against diseases?

- A. Red blood cell
- B. Plasma
- C. White blood cell
- D. Platelets

18. The sharp pointed tooth found on the human beings can be used for?

- A. Holding and tearing
- B. Biting and chewing
- C. Crushing and grinding

a glass of water. The observation made is similar as shown in the illustration below.



What factor were the children likely to investigate?

- A. Shape
- B. Size
- C. Weight
- D. Material

20. Which one of the following is **NOT** a function of a leaves on a plant?

- A. Storing food in some plants
- B. Transporting water and mineral salts
- C. Transpiration
- D. Photosynthesis

21. Taking drugs recommended **NOT** for disease treatment is known as?

- A. Drug abuse
- B. Drug addiction
- C. Vaccination
- D. Drug misuse

22. Which one of the following diseases is usually immunized at the age of nine months

- A. Measles
- B. Polio
- C. Tetanus
- D. Whooping cough

23. Which one of the following drugs can lead to increase appetite?

- A. Khat
- B. Tobacco
- C. Bhang
- D. Cocaine

24. The type of manure made by cutting growing crop into pieces and then ploughing them into the soil in the farm is

- A. Compost manure
- B. Green manure
- C. Farm yard manure
- D. Organic manure

25. Birds are not different from mammals since both of them

- A. Breathe by means of gills

- D. Cutting and piercing
19. Standard four pupils immersed two bottle tops, one crushed and the other normal into

- B. Are cold blooded  
C. Are warm blooded  
D. Cannot feed their young once on milk
26. The following are the characteristics of all

Animals **EXCEPT** one, which one?

- A. Feeding  
B. Removing wastes  
C. Making food  
D. Reacting to change in the surroundings
27. The following are signs and symptoms of a

water born disease.

- (i) Blood in the urine and stool  
(ii) Skin rashes  
(iii) Severe itching of the bowels and bladder
- The above are signs and symptoms of
- A. Bilharzia    B. Cholera  
C. Typhoid    D. Dysentery

28. The jar used for measuring rainfall should be

- A. Long and white  
B. Short and narrow  
C. Short and wide  
D. Long and narrow

29. The following are characteristics of certain vertebrates.

- (i) Give birth to young once  
(ii) Live in water  
(iii) Are warm blooded

The animal is **LIKELY** to be?

- A. Amphibians  
B. Fish  
C. Duck-billed platypus  
D. Whale

30. Farmers are usually advised to carry out Mulching **MAINLY** to

- A. Preventing soil erosion  
B. Conserve moisture  
C. Eradicate weeds  
D. Make the soil fertile

31. As the teacher asked the pupils to observe the sky, they saw the clouds with the following characteristics

- (i) *Thick and white*  
(ii) *Feathery*  
(iii) *Flat base*

the type of clouds the pupils observed are also **LIKELY**?

- A. To bring rain  
B. To occur low in the sky  
C. To be seen on fine weather

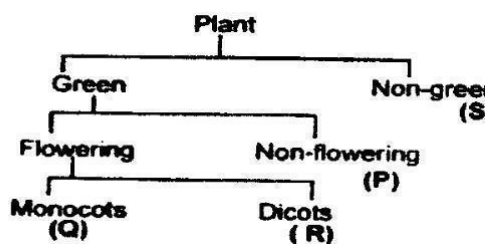
- D. To bring thunderstorms
32. The best way of controlling weed is by? A. Hand picking  
B. Digging them out  
C. Uprooting

D. D. Using chemicals

33. Which one of the following is **NOT** the use of water in the industries?

- A. Spraying crops  
B. Cooling moving parts of the machines  
C. Removing unwanted products  
D. Mixing with other substance to make products

34. The table below shoes the classification of plants. Use it to answer question 34



Which of the following shows **CORRECT** example of each of the above groups accordingly

- | Q          | R          | P     | S         |
|------------|------------|-------|-----------|
| A. Beans   | Maize      | Fern  | Lichen    |
| B. Baize   | peas       | Algae | Mushroom  |
| C. Sorghum | Groundnuts | Mould | Toadstool |
| D. Rice    | Maize      | Moss  | Puffbulls |

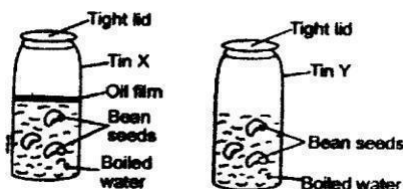
35. Empty medicine containers should be;

- A. Thrown away  
B. Re-used at home  
C. Buried in the soil  
D. Locked up in the cupboards

36. One of the following type of erosion is a form of landside which one?

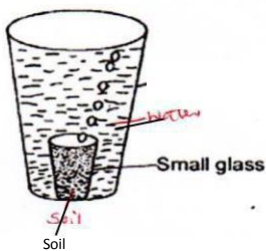
- A. Sheet erosion  
B. Rill erosion  
C. Gully erosion  
D. Splash erosion

37. Std six pupils of Umoja academy were carrying out an experiment where they set up their apparatus as shown below



If the pupils were testing for the presence of air as requirement for germination, what mistake did

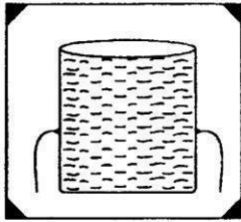
- A. Covering both tins with tight lid
  - B. Boiling the water
  - C. Having fewer seeds in tin Y
  - D. Putting an oil film on water
38. Which of the following stages of HIV and AIDS infections will the victim test positive But with no visible signs
- A. Window
  - B. Symptomatic
  - C. Full blown
  - D. Incubation
39. Materials which allow light to pass through them but one cannot see through them are said to be;
- A. Opaque
  - B. Translucent
  - C. Transparent
  - D. Reflectors
40. The process of providing the body with food necessary for maintenance of good health is called
- A. Feeding
  - B. Balance diet
  - C. Nutrition
  - D. Body building
41. Which of the following is both a field and a storage pest?
- A. Aphids
  - B. Cutworm
  - C. Weevil
  - D. Stalk borer
42. Which one of the following components of the environment occupies the **LARGEST** part of the earth's surface
- A. Water
  - B. Air
  - B. Soil
  - D. Plant
43. Using water sparingly as a way of conserving water will involve doing all the following **EXCEPT**
- A. Using used water again.
  - B. Turning off taps after use
  - C. Practicing drip irrigation method
  - D. Fixing leakages in taps and pipes
44. Study the experiment shown below



The experiment was **LIKELY** set to show the presence of

- A. Water in Air
- B. Air in the soil

- C. Water in the soil
  - D. Air in water
45. Which one of the following can mix well and form one uniform solution?
- A. Paraffin and water
  - B. Water and spirit
  - C. Milk and spirit
  - D. Water and cooking oil
46. Which one of the following is the BEST medium for sound transmission
- A. Air      B. Liquid
  - C. Vacuum   D. wood
47. The unit for measuring force is A. Newton B. Kilograms
- C. Grams      D. Joules
48. The experiment drawn below can be used by learners to understand that;



- A. Liquid exert pressure to all directions
  - B. Liquid exert more pressure with depth
  - C. Pressure in liquids is equal at its same depth
  - D. Liquid takes the shape of the container
49. An animal attacked by parasite is **NOT** likely to show one of the following signs. Which one?
- A. Rise in body temperature
  - B. Loss of appetite
  - C. Rough hair
  - D. Chewing the cud
50. Which one of the following statements **BEST** explains the term cross pollination?
- A. The transfer of pollen grains from the anthers to the stigma of another flower.
  - B. The fusion of pollen and ovule nucleus
  - C. The transfer of pollen grain from the male anthers to female stigma of another flower of the same type on the same plant.
  - D. The transfer of pollen grains from the anther to the stigma of another flower on another plant of the same kind.