

1. Which one of the following pairs of human body parts is used in breathing?

- A. Lungs and oesophagus.
- B. Nose and trachea.
- C. Diaphragm and stomach.
- D. Nose and oesophagus.

2. Which one of the following waste products is excreted by the lungs?

- A. Excess salts.
- B. Urine.
- C. Sweat.
- D. Excess water.

*3. Which one of the following pairs of diseases **only** consists of sexually transmitted infections?

- A. Gonorrhoea and malaria.
- B. HIV/AIDS and measles.
- C. Syphilis and chancroid.
- D. Bilharzia and Gonorrhoea.

4. Which one of the following is the **third** stage of HIV/AIDS infections?

- A. Symptomatic.
- B. Window.
- C. Full blown.
- D. Incubation.

5. Which one of the following components of the environment is the **main** source of energy for living things?

- A. Plants.
- B. Air.
- C. Water.
- D. Soil.

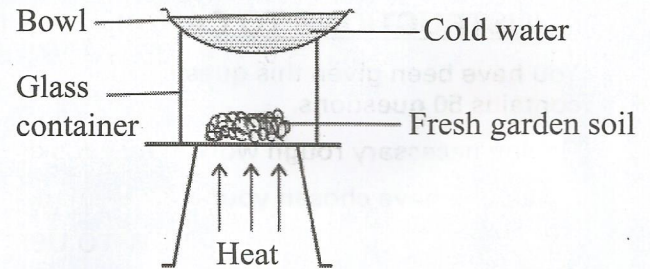
6. Which one of the following **least** pollutes the soil?

- A. Excess fertilisers.
- B. Oil spillage.
- C. Kitchen leftovers.
- D. Mining.

7. The soil that cracks easily when dry has

- A. a rough texture.
- B. small particles.
- C. large airspace.
- D. low capillarity.

8. The diagram below shows a set-up used to investigate a certain component of soil.



The component of soil that was investigated is

- A. living organisms.
- B. organic matter.
- C. air.
- D. water.

9. Which one of the following pairs of types of soil erosion forms V-shaped ditches?

- A. Gully and rill.
- B. Sheet and gully.
- C. Rill and splash.
- D. Splash and sheet.

*10. Which one of the following nutritional deficiency diseases is **more** likely to be suffered by mothers of newly born babies?

- A. Kwashiorkor.
- B. Marasmus.
- C. Anaemia.
- D. Rickets.

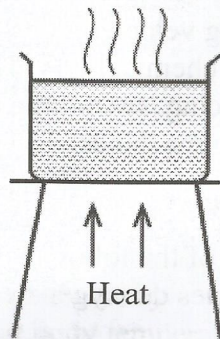
11. Which one of the following foods is **more** rich in **both** proteins and fats?

- A. Avocado.
- B. Milk.
- C. Sunflower.
- D. Beans.

12. The following produce special sounds, **except** sound from a

- A. hooting car.
- B. fire engine.
- C. ringing bell.
- D. moving tractor.

13. The diagram below shows a set-up that can be used to investigate heat transfer in a liquid. What should be added to the water for the pupils to observe heat transfer?



- A. Salt.
- B. Stones.
- C. Saw dust.
- D. Wax.

14. In which of the following devices is renewable energy used?

- A. Battery.
- B. Kerosene stove.
- C. Burning candle.
- D. Charcoal jiko.

15. The following activities were done when it was raining:

- (i) walking bare footed on the road
- (ii) lying on the bed
- (iii) playing football in the field
- (iv) driving a car on the road.

In which **two** activities is one **more** likely to be struck by lightning?

- A. (i) and (ii).
- B. (ii) and (iv).
- C. (i) and (iii).
- D. (i) and (iv).

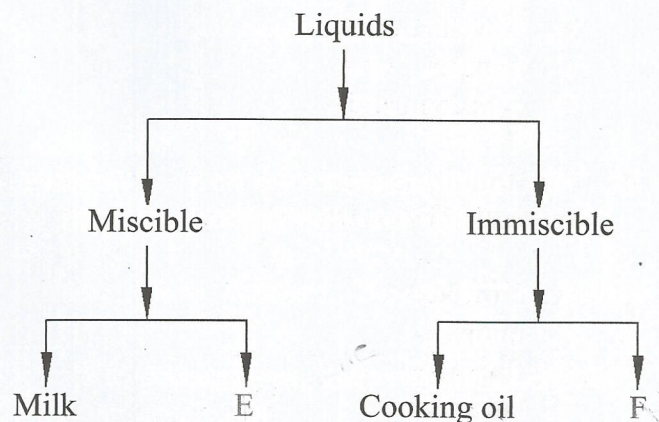
16. Which one of the following sources of electricity pollutes air?

- A. Dynamo.
- B. Geothermal generator.
- C. Biogas driven generator.
- D. Solar panel.

17. Which one of the following groups of materials consists **only** of materials that are magnetic?

- A. Bottle top, copper coin, aluminium foil.
- B. Razor blade, staple pins, steel wool.
- C. Spoon, copper wire, silver coin.
- D. Nail, aluminium foil, silver coin.

18. The chart below represents a simple classification of liquids



Which liquids are represented by E and F?

- | | |
|----------------|----------|
| E | F |
| A. Kerosene | Water |
| B. Water | Milk |
| C. Cooking oil | Milk |
| D. Water | Kerosene |

19. Which one of the following materials allows light to pass through but one **cannot** see through?

- A. Fluorescent tube.
- B. Smoke.
- C. Clean water.
- D. Mirror.

20. The percentage of the component of air that makes a bulb glow without burning is
- 78%
 - 21%
 - 0.03%
 - 0.97%
21. Which one of the following groups of substances has definite volume and shape?
- Oxygen, water and ice.
 - Ink, grease, glucose.
 - Flour, powdered chalk, salt.
 - Sand, powdered milk, methylated spirit.
22. Which one of the following machines works in the **same** way as a crowbar?
- Spade.
 - Claw hammer.
 - Ladder.
 - Wheel barrow.
23. The following machines make work easier by reducing the effort required **except**
- crowbar.
 - ramp.
 - flag post.
 - ladder.
24. Which one of the following statements is **true** about rain water?
- Uses more soap during washing.
 - Saves time and energy during washing.
 - Is rich in minerals.
 - Stains clothes.
25. A pupil who buys mango fruits from market and eats without washing is likely to be infected with
- typhoid and cholera
 - bilharzia and cholera
 - typhoid and malaria
 - bilharzia and malaria.
26. Which of the following practices conserves water by using it sparingly?
- Treating and using sewage water.
 - Harvesting rain water.
 - Using water used to wash vegetables to water plants.
 - Supplying water once a week.
27. Which of the following groups of activities **only** consists of industrial uses of water?
- Fishing, transport, mixing chemicals.
 - Washing vehicles, constructing roads, mixing chemicals.
 - Boat racing, swimming, fishing.
 - Cooling machines, drinking, cleaning of tools.
28. Which one of the following pairs of blood vessels carries deoxygenated blood?
- Venacava and aorta.
 - Pulmonary artery and pulmonary vein.
 - Venacava and pulmonary artery.
 - Pulmonary vein and aorta.
29. Which one of the following features is **least** important when describing a molar tooth?
- Roots.
 - Cusps.
 - Broadness.
 - Hardness.
30. Which one of the following components of blood is **correctly** matched to its function?
- | Blood component | Function |
|----------------------|--------------------|
| A. Plasma | Transports oxygen. |
| B. White blood cells | Heat distribution. |
| C. Platelets | Blood clotting. |
| D. Red blood cell | Transports iron. |

31. The following are some effects of drug abuse:

- (i) drug induced accidents
- (ii) addiction
- (iii) coma
- (iv) rape
- (v) truancy
- (vi) impaired judgement.

Which **three** are classified as health effects?

- A. (i), (ii), (v).
- B. (iii), (iv), (v).
- C. (ii), (iii), (vi).
- D. (i), (iii), (iv).

32. The following are some characteristics of a certain vertebrate:

- (i) scales on the body
- (ii) varying body temperatures
- (iii) lay externally fertilised eggs

The animal with the above characteristics is likely to be

- A. salamander.
- B. shark.
- C. lizard.
- D. duck.

33. Which one of the following is the **main** effect of HIV/AIDS on the nation?

- A. Increased medical expenses.
- B. Poor health.
- C. Stigmatisation.
- D. Lack of parental care.

34. Which of the following statements is **true** about the immunisation schedule of infants?

- A. DPT vaccine is given at birth and the 6th week.
- B. BCG and polio vaccines are given at birth and the 6th week.
- C. DPT and measles vaccine are given at the 10th week.
- D. Polio and DPT vaccines are given at the 6th week.

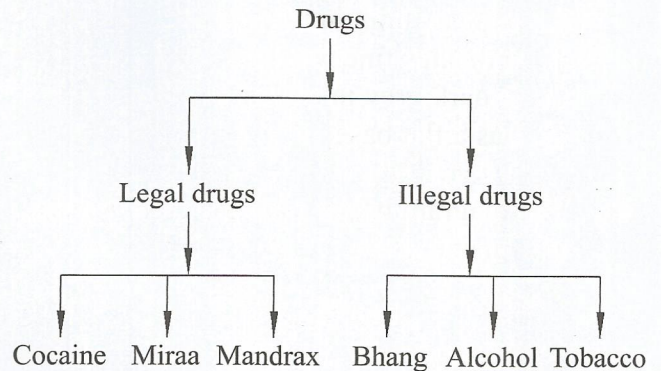
35. The **best** way of preventing the spread of HIV/AIDS among the youths in Kenya is

- A. seeking medication.
- B. being faithful to their partners.
- C. abstinence.
- D. testing and counselling.

36. Which one of the following plants is classified as **both** green and non flowering?

- A. Mosses.
- B. Sugarcane.
- C. Grass.
- D. Mushroom.

37. A pupil classified drugs as shown below.



Which drugs were **correctly** classified by the pupil?

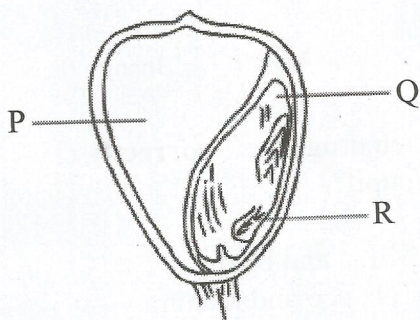
- A. Miraa and bhang.
- B. Tobacco and mandrax.
- C. Cocaine and miraa.
- D. Bhang and alcohol.

38. Which one of the following pairs of crop pests is likely to attack a crop of maize growing in the field?

- A. Weevils and aphids.
- B. Cutworms and rodents.
- C. Weaver birds and rodents.
- D. Weaver birds and cutworms.

39. A plant with deep and widespread root system is also likely to have
- many stomata.
 - flexible stems.
 - thick cuticles.
 - thin cuticles.
40. Which one of the following weeds **cannot** be effectively controlled by uprooting?
- Mexican marigold.
 - Oxalis.
 - Wondering jew.
 - Black jack.
41. The following are characteristics of a certain type of cloud **except**
- appears high in the sky.
 - indicates fine weather.
 - is dark grey in colour.
 - has a flat base.

42. The diagram below shows a cross section of a maize grain.

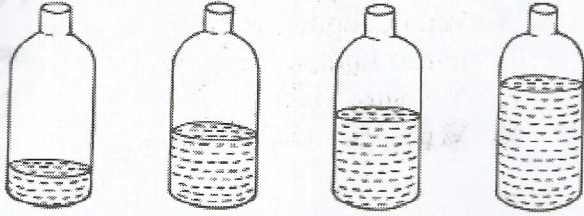


Which one of the following **correctly** identifies the parts labelled P, Q and R.

- | P | Q | R |
|--------------|-----------|----------|
| A. Endosperm | cotyledon | radicle. |
| B. Endosperm | cotyledon | plumule. |
| C. Cotyledon | endosperm | plumule. |
| D. Cotyledon | endosperm | radicle. |

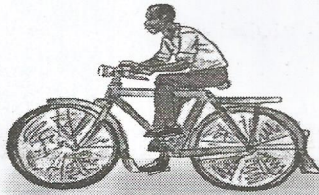
43. Which one of the following groups only consists of planets in the **3rd, 5th and 8th** position in the solar system?
- Venus, Jupiter, Uranus.
 - Earth, Jupiter, Neptune.
 - Mercury, Mars, Saturn.
 - Venus, Uranus, Jupiter.
44. Which one of the following is an adaptation for **both** flying and swimming?
- Strong hind legs.
 - Presence of wings.
 - Webbed feet.
 - Streamlined body.
45. The following are adaptations for feeding in herbivores. Which **two** are for turning food in the mouth?
- Presence of horny pad and continuously growing teeth.
 - Rough tongue and presence of diastema.
 - Presence of horny pad and rough tongue.
 - Continuously growing teeth and presence of diastema.
46. Which one of the following characteristics differentiates amphibians from reptiles?
- Cold blooded.
 - Body covered with scales.
 - Partly live in water.
 - Lay eggs.
47. Which one of the following does **not** conserve energy?
- Using a bicycle dynamo for lighting.
 - Using an improved jiko for cooling.
 - Using biogas for cooking.
 - Planting trees.

48. The diagram below shows a set-up prepared by a pupil to investigate an aspect of sound.



The aspect of sound investigated by the pupil is

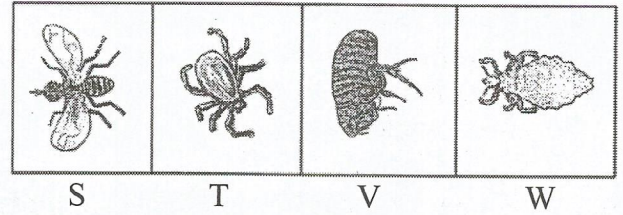
- A. production of sound by hitting.
 - B. sources of sound.
 - C. loud and soft sounds.
 - D. special sounds.
49. The diagram below shows a person riding a bicycle.



Which one of the following does **not** reduce friction during riding?

- A. Leaning forward on the ride.
- B. Treaded tyres.
- C. Ball bearings in the wheels.
- D. The shape of the wheels.

50. The diagram below shows some parasites labelled S, T, V and W.



Which one of the parasites is **more** likely to reduce the quality of wool in sheep?

- A. S
- B. T
- C. V
- D. W