

MENTOR ASSESSMENT SERIES - 2021

CLASS 8 SCIENCE

002

Time: 1 hour 40 minutes

INSTRUCTIONS TO CANDIDATES (Please read these instructions carefully)

1. You have been given this booklet and a separate answer sheet. The question booklet contains 50 questions.
2. When you have chosen your answer, mark it on the **ANSWER SHEET**, not in the question paper.

HOW TO USE THE ANSWER SHEET

3. Use only an ordinary pencil.

4. Make sure you have written on the answer sheet:

YOUR INDEX NUMBER

YOUR NAME

NAME OF YOUR SCHOOL

5. By drawing a dark line inside the correct numbered boxes mark your full index number (i.e. School Code Number and the three-figure Candidate's Number) in the grid near the top of the answer sheet.
6. Do not make any marks outside the boxes.
7. Keep your answer sheet as clean as possible and **DO NOT FOLD IT**.
8. For each of the Questions 1 – 50 four answers are given. The answers are lettered A, B, C, D. In each case only **ONE** of the four answers is correct. Choose the correct answer.
9. On the answer sheet the correct answer is to be shown by drawing a dark line inside the box in which the letter you have chosen is written.

Example

In the question Booklet:

20. A simple electric circuit should have the following parts **except**

- A. dry cells
- B. wires
- C. fuse
- D. bulb.

The correct answer is C.

On the answer sheet;

1. [A] [B] [C] [D] 10. [A] [B] [C] [D] 20. [A] [B] [~~C~~] [D] 30. [A] [B] [C] [D] 31. [A] [B] [C] [D]

In the third set, the box with the letter C printed in it is marked.

11. Your dark line **MUST** be within the box.
12. For each question **ONLY ONE** box is to be marked in each set of four boxes. This Question Paper consists of 6 printed pages.

TURN OVER

1. The diagram below shows a type of teeth



The type of teeth is used for

- A. Tearing
 - B. Gripping
 - C. Chewing
 - D. Cutting
2. Which statement is false about all veins?
- A. They carry oxygenated blood.
 - B. They have valves.
 - C. They transport blood to the heart.
 - D. Blood flows through them smoothly.
3. A certain patient was said to have no AIDS but tested positive for HIV. Which of the following stages of HIV AIDS was the person likely to be?
- A. Window.
 - B. Incubation.
 - C. Symptomatic.
 - D. Full blown.
4. Which one of the following sexually transmitted infections is caused by virus?
- A. Chancroid.
 - B. Syphilis.
 - C. Herpes.
 - D. Gonorrhoea
5. Which one of the following is not an illegal drug in Kenya?
- A. Cocaine.
 - B. Bhang.
 - C. Mandrax.
 - D. Khat.

6. Which one of the following is not a magnetic material?

- A. Nail.
 - B. Silver coin.
 - C. Iron rod.
 - D. Gold.
7. All the following are types of forces except?
- A. Weight.
 - B. Magnetism.
 - C. Friction.
 - D. Mass
8. The gas that occupies 21% of the volume of air: -
- A. Is used during photosynthesis.
 - B. Does not support burning.
 - C. Used by leguminous plants.
 - D. Used for breathing.
9. All the following plants have fibrous roots except?
- A. Wheat.
 - B. Blackjack.
 - C. Grass.
 - D. Sisal
10. The third D.P.T vaccine is given to infants at the age of: -
- A. 10 months.
 - B. 9 months.
 - C. 14 months.
 - D. 14 weeks

11. Which one of the following body wastes is excreted by all the 3 excretory organs?

- A. Salts.
- B. Urea.
- C. Carbon dioxide.
- D. Excess water.

12. Three of the following are health effects of drugs **except**?

- A. Addiction.
- B. Coma.
- C. Convulsion.
- D. Rape

13. Which one of the following is a storage pest?

- A. Aphid.
- B. Cutworm.
- C. Stalk borer.
- D. Weevils.

14. Which is the primary consumer in food chain below?

Cabbage → Goat → Lion → Hawk

- A. Goat.
- B. Lion.
- C. Hawk.
- D. Cabbage.

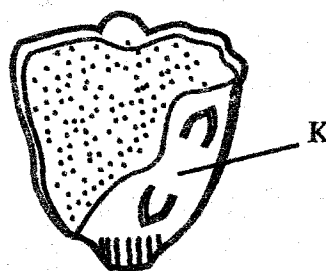
15. The following are special sounds **except**?

- A. Siren.
- B. Hooting.
- C. School bell.
- D. Baby crying

16. Which pair of plants below contains stem tubers

- A. Arrow root, cassava.
- B. Yam, irish potato.
- C. Carrot, onion.
- D. Yam, arrow root.

17. The diagram below shows a maize seed.

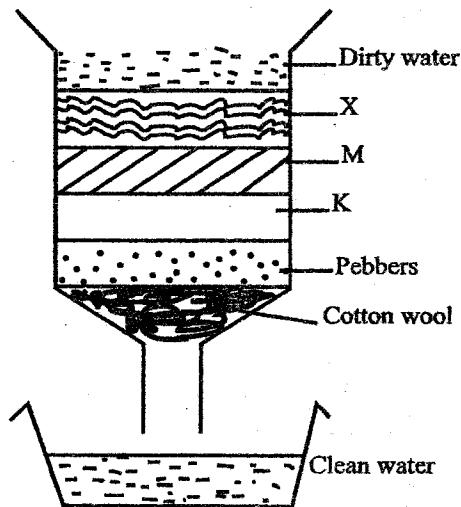


The part marked K is _____

- A. Endosperm.
- B. Cotyledon.
- C. Fruit scar.
- D. Style scar.

18. Which one of the following components of environment covers most of the Earth's surface?
- Water.
 - Animals.
 - Soil.
 - Air.

19. The diagram below shows a home-made filter. What is the name of the part marked X?

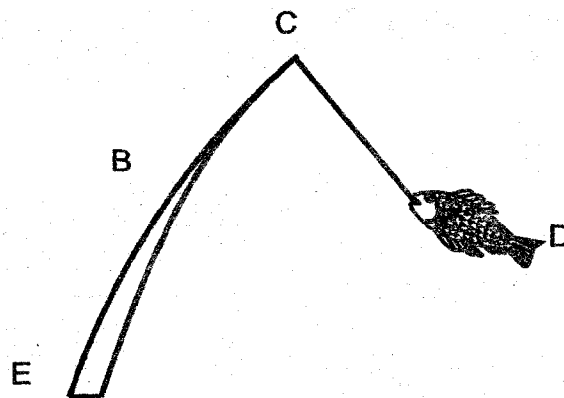


- Charcoal.
 - Fine sand.
 - Coarse sand.
 - Clay.
20. Which one of the following materials will affect floating and sinking of a material in water?
- Mass of material.
 - Type of material
 - Size of material.
 - Color of material.

21. Which of the following is an advantage of friction?
- Production of unwanted heat.
 - Skating on ice.
 - Braking of a vehicle.
 - Swimming.

22. Which of the following foods consist of body building foods only?
- Kales, beef, carrot.
 - Chicken, eggs, locusts.
 - Cassava, maize, milk.
 - Millet, beans, maize

23. The diagram below represents a fishing rod. Which part represents fulcrum?



- E
- B
- C
- D

24. Which of the following pair of liquids are miscible?

- A. Kerosene, milk.
- B. Milk, cooking oil.
- C. Milk, water.
- D. Water, kerosene

25. Which of the following animals below belong to the same group as a tick?

- A. Weevil.
- B. Crab.
- C. Cockroach.
- D. Scorpion.

26. Three of the following are transported by blood plasma **except**?

- A. Food.
- B. Heat.
- C. Oxygen.
- D. Hormones

27. The following are insectivorous plants. Which one is **not**?

- A. Cobra lily.
- B. Sundew.
- C. Liverwort.
- D. Venus flytrap

28. Heat transfer in gases and liquids **mainly** takes place through;

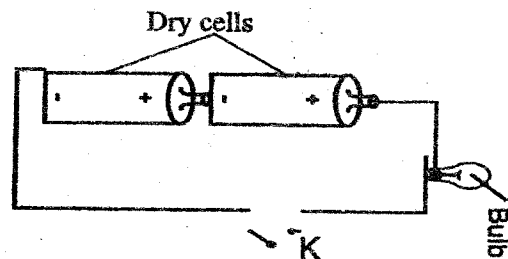
- A. Radiation.
- B. Convection, conduction.
- C. Convection only.
- D. Radiation, convection.

29. Which one of the following is a translucent material?

- A. Kerosene.
- B. Mirror.
- C. Milk.
- D. Oiled paper

30. The diagram below represents a set up that can be used to investigate good and poor conductors of a certain form of energy.

Which material can be fitted at part marked **K** to make the bulb light?



- A. Glass rod.
- B. Wood.
- C. A fresh leaf.
- D. A paper bag.

31. Which one of the following is safety measure against lightning when it is raining?

- A. Walking bare footed.
- B. Walking in an open field.
- C. Carrying sharp pointed objects.
- D. Wearing rubber shoes.

32. Which one of the following plants is a combination of fungi and algae?

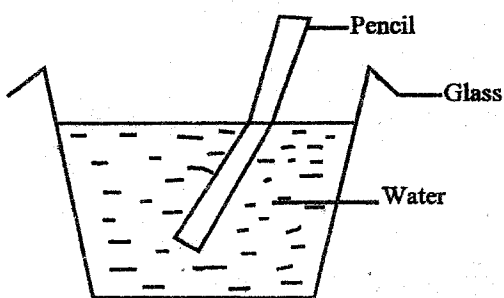
- A. Lichen.
- B. Mushroom.
- C. Yeast.
- D. Toadstool.

33. Which one of the following is not a change of state?
- A. Boiling water to steam.
 - B. Melting ice to water.
 - C. Freezing water to ice.
 - D. Crushing stone into powder.

34. Which one of the following food preservation methods does not work by dehydrating food?
- A. Drying.
 - B. Salting.
 - C. Freezing.
 - D. Smoking.

35. Medicines used to treat known diseases are also called?
- A. Vaccines.
 - B. Analgesics.
 - C. Antibiotics.
 - D. Sedatives.

36. A standard six pupil carried out an experiment shown below in a school called RABBANI ACADEMY. The process being investigated was?



- A. Reflection.
- B. Dispersion.
- C. Refraction.
- D. Broken pencil

37. Which one of the following is not a macro-nutrient.
- A. Nitrogen.
 - B. Potassium.
 - C. Sulphur.
 - D. Phosphorus.

38. Which one of the following livestock parasites can be found in lungs, brain and stomach?
- A. Lungworms.
 - B. Liver fluke.
 - C. Tapeworm
 - D. Hookworm.

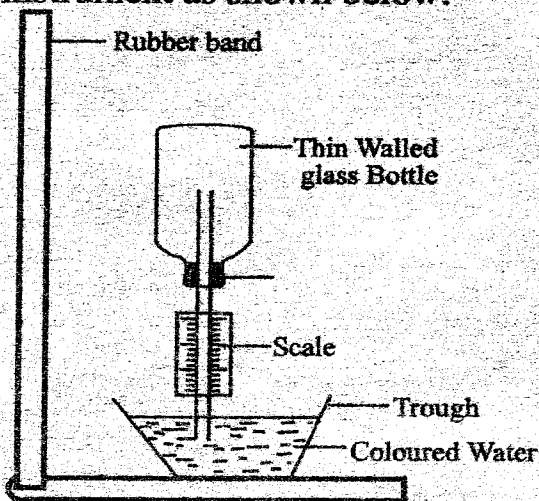
39. Standard six pupils of Rabbani Academy set up an experiment below in a dark house. They were likely to be investigating?



- A. Bending of light.
- B. Reflection of light.
- C. How light travels.
- D. Working of a periscope

40. Mr. Edwin Otieno a science teacher accidentally inhaled poisonous gas from a gas chamber in a lab. Which chamber of the heart received the gas first?
- A. Right ventricle.
 - B. Right auricle.
 - C. Left ventricle.
 - D. Left auricle.

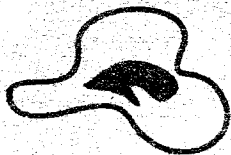
41. Pupils constructed a weather instrument as shown below.



Which one of the following statements is true about a weather instrument when was used in a hot afternoon?

- A. The level of water rises in the straw.
- B. The glass bottle developed some cracks.
- C. Water entered glass bottle.
- D. The level of water rose in the trough.

42. The diagram below shows a blood component. The component below helps in

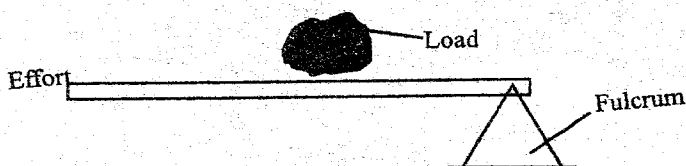


- A. Clotting after an injury.
- B. Transport oxygen.
- C. Fighting infections.
- D. Transport digested food.

43. The type of soil erosion that occurs unnoticed is _____

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

44. The diagram below shows a lever in use.



The above machine works the same as _____

- A. Spade.
- B. Wheelbarrow.
- C. Claw hammer.
- D. Crowbar.

45. Which nutritional deficiency disease causes paleness of the skin, shortness of breath and dizziness?

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

46. A standard 4 pupil from Karoo primary school went for a nature walk and observed a plant with thorny fruits, white flowers and broad leavers. The plant observed was most likely to be

- A. Pigweed.
- B. Sodom apple.
- C. Blackjack.
- D. Thorn apple.

47. Which method of grazing involves use of temporary movable fence

- A. Zero grazing.
- B. Herding.
- C. Strip grazing.
- D. Paddockging

48. Omondi developed the following signs and symptoms after exposure to contaminated water

- I. Coughing.
- II. Skin rash.
- III. Severe headache.
- IV. Slight diarrhea with stains of blood.

He was likely to be suffering from?

- A. Malaria.
- B. Typhoid.
- C. Cholera.
- D. Bilharzia

49. When carrying out an experiment on capillarity. Which one of the following need not to be the same?

- A. Amount of soil.
- B. Size of glass tubes.
- C. Size of containers.
- D. Amount of cotton wool.

50. In order to increase the ability of a solute to dissolve in a solvent, all of the following can be done EXCEPT?

- A. Warming the solvent.
- B. Crushing the solute.
- C. Adding the solvent.
- D. Warming the solute.