



Myfuture CBC Revision

Integrated Science - GRADE 9

Question Paper

1. Which metal is known for its use in making jewelry?

- A. Iron
- B. Lead
- C. Silver
- D. Copper

2. Which subatomic particle has no charge?

- A. Isotope
- B. Proton
- C. Electron
- D. Neutron

3. What is the colour observed when phenolphthalein indicator is added to a neutral solution?

- A. Colourless
- B. Red
- C. Pink
- D. Blue

4. When the egg and sperm join together, it is known as....

- A. ovulation
- B. Pollination
- C. intercourse
- D. fertilization

5. Which ions contribute to permanent hardness in water?

- A. Iron and copper ions
- B. Chlorine and fluoride ions
- C. Sodium and potassium ions
- D. Calcium and magnesium ions

6. Strong acids have a pH value ranging from?

- A. 7 to 14
- B. 8 to 14
- C. 0 to 3
- D. 4 to 6

7. Define volume.

- A. mass per unit area
- B. distance between two points
- C. the space occupied by matter
- D. quantity of matter in an object

8. What is the colour observed when Methyl orange indicator is added to a neutral solution?

- A. Remains orange
- B. Pink
- C. Blue
- D. Yellow

9. holds the eyepiece and revolving nosepiece

- A. clip
- B. body tube
- C. base
- D. arm

10. What is the main cause of water hardness?

- A. High concentration of chlorine ions
- B. High concentration of sodium ions
- C. High concentration of potassium ions
- D. High concentration of calcium ions

11. Which metal is commonly used for making electrical wires?

- A. Silver
- B. Copper
- C. Lead
- D. Aluminum

12. Where are most nutrients absorbed into the bloodstream in animals?

- A. Large intestine
- B. Small intestine
- C. Stomach
- D. Liver

13. What is the property of an object that indicates whether it is positively or negatively charged?

- A. Charge
- B. Volume
- C. Density
- D. Mass

14. Which of the following is not a component of food but is essential for digestion in animals?

- A. Hydrochloric acid
- B. Saliva
- C. Bile
- D. Insulin

15. -----caused by broken glass.

- A. burn
- B. ingestion
- C. cuts
- D. scald

16. Why are convex mirrors used as security mirrors in shops?

- A. They provide a wide field of view and show reduced upright images so more area is seen
- B. They create bright real images on the ceiling
- C. They invert the image which alerts staff to movement
- D. They magnify the image making small objects easier to spot

17. What type of poles attract each other?

- A. South and North poles
- B. East and West poles
- C. North and North poles
- D. South and South poles

18.are caused by excess salts in the kidney.

- A. Tuberculosis
- B. Kidney stones
- C. Nephritis
- D. Kidney failure

19. What is the colour observed when Methyl orange indicator is added to an acidic solution?

- A. Orange
- B. Purple
- C. Yellow
- D. Pink

20. In scientific investigation, why is it important to communicate results to others?

- A. To confuse others
- B. To share knowledge
- C. To avoid further experiments
- D. To keep information secret

21. Which method is commonly used to soften hard water in households?

- A. Adding more calcium ions
- B. Using a water softener
- C. Boiling the water
- D. Adding potassium ions

22. The volume of 2720 g of mercury was found to be 200 cubic centimetres. Calculate the density of mercury.

- A. 13.6 grams per cubic centimetres
- B. 143.6 grams per cubic metres
- C. 13.6 kilograms per cubic metres
- D. 2920 grams

23. Which of the following are Neutral solutions?

- A. Baking powder and sodium hydroxide
- B. Sulphuric acid and Hydrochloric acid
- C. Water and sodium hydroxide
- D. Distilled water and Sodium chloride

24. Which part of the plant absorbs water and minerals?

- A. Flowers
- B. Leaves
- C. Stem
- D. Roots

25. Which of the following is a proper way to handle electrical equipment in the laboratory?

- A. Plug in multiple devices in one outlet
- B. Yank the cord to unplug
- C. Use them with wet hands
- D. Keep cords away from water

26. Depending on how particles in a mixture interact, they can be either form a.....and

- A. Immiscible and miscible mixture
- B. Gas and Gas
- C. Solid and liquid
- D. Homogeneous and heterogeneous mixture

27. How are static charges produced?

- A. Through electricity
- B. Through solar
- C. By rubbing objects together.
- D. They are undefined

28. Which of the following is a role of fiber in the diet of animals?

- A. provide energy
- B. enhance vision
- C. regulate cholesterol
- D. help with blood clotting

29. Students are conducting an experiment with salt water. A large quantity of sand is added to the container of salt water. What do you expect to observe?

- A. The sand settles to the bottom of the container.
- B. The salt floats to the top of the container.
- C. The salt and sand combine to form a solid.
- D. The sand dissolves.

30. What is the voltage of a standard household electrical outlet in Kenya?

- A. 440V
- B. 12V
- C. 220V
- D. 120V

31. Which one of the following is not a sign and symptom of Nephritis?

- A. Swelling of the body
- B. Blood in the urine
- C. High blood pressure
- D. Muscle cramps

32. The following are basic quantities except.....

- A. time
- B. length
- C. mass
- D. area

33. What is likely to happen in a food web if a keystone predator (e.g., lions) is removed?

- A. Decomposers will stop working
- B. All plant species will immediately become extinct
- C. Nothing changes because predators are unimportant
- D. Herbivore populations may increase, causing overgrazing and ecosystem imbalance

34. Differentiate between rule and ruler.

- A. The zero mark of the rule is located at the edge while that of a ruler is located away from
- B. the rule is half that of ruler
- C. The zero mark of the ruler is located at the edge while that of a rule is located away from
- D. the size of them differs alot .

35. ---- supports the body tube and stage.

- A. clip
- B. limb
- C. mirror
- D. base

36. What is a pure substance?

- A. Is one that contains only solid.
- B. Is one that contains only three type of matter
- C. Is one that contains only one type of matter.
- D. Is one that contains one or more type of matter

37.are caused by naked flames of concentrated acid or bases.

- A. ingestion
- B. scalds
- C. cuts
- D. burns

38. What effect does water hardness have on soap?

- A. Decreases its lather
- B. No effect on lather
- C. Changes its color
- D. Increases its lather

39. Which of the following is a common alloy used in electrical wiring?

- A. Bronze
- B. Steel
- C. Pure copper
- D. Tin

40. When a mixture is formed, how are the components mixed?

- A. Mentally
- B. Chemically
- C. Physically
- D. Electrically

41. Which of the following nutrients is essential for maintaining healthy skin and fur in animals?

- A. Minerals
- B. Vitamins
- C. Carbohydrates
- D. Fats

42. Why are pollinators like bees important for Kenyan crops such as coffee and avocado?

- A. They eat the whole fruit making it edible
- B. They remove soil nutrients from the farm
- C. They spread plant diseases to reduce crop yields
- D. They transfer pollen between flowers, enabling fruit and seed production

43. Where does photosynthesis mainly take place in a plant cell?

- A. Mitochondria
- B. Chloroplasts
- C. Vacuole
- D. Cytoplasm

44. The following activity is not permitted in the laboratory Except.....

- A. eating
- B. chewing gum
- C. Manipulation
- D. drinking

45. Which one is not a good practice when using a light microscope?

- A. Clean dirty lenses with soft tissue paper moistened in ethanol.
- B. Always use both hands when carrying it.
- C. Always clean and store it in a safe place .
- D. Regular touching of the mirror and the lens with your hand.

46. Which of the following is a common indicator for acids?

- A. Bromothymol blue
- B. Red cabbage juice
- C. Phenolphthalein
- D. Methylene blue

47. The following is not a laboratory apparatus.

- A. windows and doors should be open
- B. do not splash water on electric sockets
- C. repair a faulty apparatus
- D. proper disposal off waste after experiment

48. Why are decomposers essential for nutrient cycling in forests?

- A. They stop leaves from falling off trees
- B. They eat living trees and kill the forest
- C. They convert dead material into nutrients that plants can absorb
- D. They prevent water from reaching plant roots

49. Which phase does the egg breaks down and shed along with the uterine lining?

- A. Ovulation phase
- B. Luteal phase
- C. Follicular phase
- D. Menstrual phase

50. What is the main role of the stomach in the digestive system of animals?

- A. absorb nutrients
- B. produce bile
- C. store food
- D. break down food

