NYANDARUA COUNTY

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- KISWAHILI LUGHA
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- ► SCIENCE
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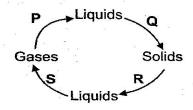
SCIENCE

- 1. The following weather instruments are put in a weather house. Which one is not?
 - A. Anemometer.
 - B. Hygrometer.
 - C. Air thermometer.
 - D. Liquid thermometer,
- 2. The reason for using a biro cap as a pivot in the construction of an improvised windvane is to make the arrow
 - A. rotate freely
 - B. balance the stand
 - C. show the direction of the wind
 - D. heavy.
- 3. Which of the following is not true about pressure exerted by liquid? Pressure in liquid increases when the
 - A. amount of liquid is increased.
 - B. diameter of container is reduced.
 - C. depth of liquid is increased.
 - D. container with liquid is increased.
- 4. The following are some of the physical changes that take place during adolescence
 - (i) Hips become broader
 - (ii) Chest and shoulders become broader
 - (iii) Pimples may appear on the face
 - (iv) Voice breaks
 - (v) Pubic hair grows

Which of the changes take place in girls only?

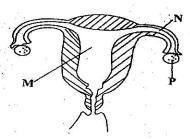
- A. (i), (ii), (iv) B. (i), (iii), (iv)
- C. (ii), (iv), (v) D. (i), (iii), (v)
- 5. Which of the following correctly shows how a baby develops in the womb?
 - A. Zygote \rightarrow Foetus \rightarrow Embryo \rightarrow Baby
 - B. Embryo \rightarrow Foetus \rightarrow Zygote \rightarrow Baby
 - C. Baby \rightarrow Foetus \rightarrow Embryo \rightarrow Zygote
 - D. Zygote \rightarrow Embryo \rightarrow Foetus \rightarrow Baby.
- 6. Which one of the following states of matter has both indefinite shape and volume?
 - A. Milk.
- B. Brick.
- C. Lump of soil.
- D. Carbon dioxide.
- 7. Which one of the following is not a characteristic of hydrophytes?
 - A. Increased number of stomata.
 - B. Reduced number of stomata.
 - C. Most of the stomata are on the upper surface of the leaf.
 - D. Stomata remain open most of the time.

- 8. Some animals protect themselves by appearing like their sorroundings colour. What name is given to this?
 - A. Hibernation.
- B. Camouflage.
- C. Burrowing.
- D. Pretence.
- 9. The diagram below shows the processes P, Q, R and S which cause change of state. Which two processes require an increase in temperature?



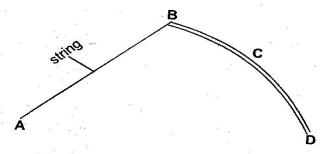
- A. R and S.
- B. P and Q.
- C. Q and R.
- D. P and S.
- 10. Which one of the following may not be contained in hard water?
 - A. Lather.
 - B. Dissolved mineral salt.
 - C. Dust particles.
 - D. Dissolved gases.
- 11. The following are points to consider when taking medicine. Which one is not?
 - A. Date of manufacture.
 - B. Duration to complete dose.
 - C. How to store the medicine.
 - D. Expiry date.
- 12. Which one of the following determines the rate at which water drains through the soil?
 - A. Size of the particles of the soil.
 - B. Humus content in the soil.
 - C. Mass of the soil.
 - D. Air content in the soil.
- Bats, seals and duck-billed platypus are similar in that all
 - A. have scales on their bodies
 - B. are flying mammals
 - C. have a constant body temperature
 - D. are cold blooded animals.

14. The diagram below represents the reproductive system in the female human body.



Which of the following processes occur at parts MNP respectively?

- A. Ovulation, Fertilisation, Implantation.
- B. Conception, Fertilisation, Ovulation.
- C. Implantation, Fertilisation, Ovulation.
- D. Ovulation, Implantation, Fertilisation.
- 15. Which one of the following groups consists of only the diseases that are immunizable?
 - A. Whooping cough, Tuberculosis, Tetanus.
 - B. Measles, Malaria, Diphtheria.
 - C. Dysentery, Poliomyelitis, AIDS.
 - D. Bilharzia, Cholera, Tuberculosis.
- 16. The diagram below is of a fishing rod

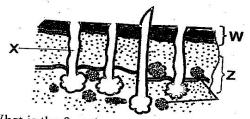


Which parts show the fulcrum, effort and load respectively?

- A. ABC.
- B. ABD.
- C. DCA.
- D. DCB.
- 17. All the following are correct about deoxygenated blood except
 - A. it enters the heart via venacava
 - B. it is pumped into the lungs to remove carbon dioxide
 - C. it travels back to the heart via the pulmonary vein
 - D. It is pumped into the lungs via pulmonary artery.

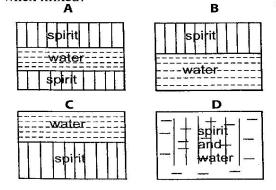
- 18. Which is the easiest way for testing water hardness?
 - A. Boiling the water.
 - B. Distilling water.
 - C. Making lather with soap.
 - D. Adding chemicals.
- 19. What is the use of the toothless gap in the lower jaw of herbivores?
 - A. Turning plant material in the mouth for proper chewing.
 - B. Holding food material.
 - C. Allowing space for more food.
 - D. Preventing the animals from biting their tongues.

Use the diagram below to answer questions 20 and 21

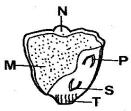


- 20. What is the function of the part marked X?
 - A. Produces sweat
- B. Passes out sweat
- C. Passes out blood
- D. Produces blood.
- 21. Name the parts marked W and Z respectively in the diagram above
 - A. Epidermis, Dermis
 - B. Dermis, Epidermis
 - C. Epidermis, Sweat gland
 - D. Dermis, Sweat gland
- 22. The following are functions of the placenta except
 - A. enhances the flow of digested food from the mother to the foetus
 - B. enhances the passage of waste products from the mother to the foetus
 - C. helps in exchange of gases
 - D. facilitates the transfer of waste products from the foetus to the mother.
- 23. The following are control measures for HIV and AIDS. Which one is not?
 - A. Creating public awareness on HIV and
 - Campaigns through various media
 - C. Voluntary counselling and testing to know one's status
 - D. Building more wards to accommodate the rising number of patients.

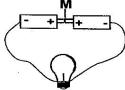
- 24. Which one of the following parts of a human body produces urine?
 - A. Bladder.
- B. Kidney.
- C. Skin.
- D. Urethra.
- 25. Which one of the following is a group of internal livestock parasites?
 - A. Ticks, Fleas, Liverflukes.
 - B. Tapeworms, Roundworms, Fleas.
 - C. Liverflukes, Ticks, Mites.
 - D. Tapeworms, Lungworms, Roundworms.
- 26. Which of the following statements about babies born to smoking mothers is incorrect?
 - A. Are usually underweight.
 - B. May become slow learners.
 - C. May become sickly.
 - D. Have a strong immune system.
- 27. Which of the following is not a disadvantage of friction?
 - A. Causing wear and tear.
 - B. Making work difficult.
 - C. Production of heat on the surfaces.
 - D. Braking to stop movement.
- 28. Which of the following drugs can be prepared artificially in the laboratory?
 - A. Mandrax.
- B. Cocaine.
- C. Heroin.
- D. Khat.
- 29. The following are advantages of mulching except
 - A. improves soil texture
 - B. suffocates weeds
 - C. controls soil erosion
 - D. pollutes the soil.
- 30. Which of the following pairs of experiments on soil have the same characteristics?
 - A. Drainage and Capillarity.
 - B. Capillarity and Retention.
 - C. Retention and texture.
 - D. Drainage and Retention.
- 31. Which one of the following diagrams shows how water and methylated spirit will behave when mixed?



- 32. One method of preserving fish is to spread salt over and under the fish. The main function of salt is to_____
 - A. dehydrate water that causes decomposition
 - B. add minerals which preserve fish
 - C. make fish tastier when it is eventually cooked
 - D. cushion fish from invasion by bacteria and fungi.
- 33. Which one of the following activities will not increase the solubility of a solute in a solvent?
 - A. Increasing the temperature of the solvent.
 - B. Stirring the mixture.
 - C. Reducing size of the solute.
 - D. Reducing the temperature of solvent.
- 34. Which of the parts below forms the embryo of a seed?



- A. MT.
- B. PT.
- C. PS.
- D. NM.
- 35. The diagram below shows a food chain Maize Goat Cheetah Vulture What would happen if all the cheetahs were removed?
 - A. The goats would reduce and maize increase.
 - B. The vulture would increase and the goats reduce.
 - C. The goats would increae and maize reduce.
 - The goats would increase and the maize increase.
- 36. Birds with strong hooked beaks and talons are usually called
 - A. grain eaters
- B. flesh eaters
- C. nectar feeders
- D. filter feeders.
- 37. Std 7 pupils from Enos Academy made the following simple circuit. Which material if placed at point M will make the bulb to light?

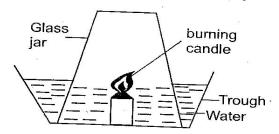


- A. Glass.
- B. Graphite.
- C.Rubber.
- D. Wood.

- 38. Mercury is the most suitable liquid in the use of a thermometer because
 - A. it is cheap and readily available
 - B. it is visible and expands evenly
 - C. it evaporates easily
 - D. it is invisible and contracts evenly.
- 39. What is the function of the stigma in a flower?
 - A. Protects the flower at bud stage.
 - B. Attracts insect for pollination process.
 - C. Is for fertilisation process in the flower.
 - D. Receives pollen grains during pollination.
- -40. Which one of the following mixtures cannot be separated using a magnet?
 - A. Copper and silver.
 - B. Cobalt and aluminium.
 - C. Nickel and silver.
 - D. Iron and Cobalt.
- 41. Which one of the following statements is true about the window stage of HIV infection?

 A. If HIV test is carried out the growth:
 - A. If HIV test is carried out the result is negative.
 - B. It is the second stage of HIV infection.
 - C. The body cannot fight diseases at this stage.
 - D. There are visible signs.
- 42. Which of the following pairs of effects of drug abuse consists of social effects only?
 - A. Drug induced accidents and truancy.
 - B. Depression and headaches.
 - C. Loss of consciousness and rape.
 - D. Theft and impaired judgement.
- 43. Which one of the following explains why leaves of some plants are modified to spines?
 - A. To increase surface area of the leaves.
 - B. To increase absorption of water.
 - C. To reduce transpiration.
 - D. To reduce photosynthesis.
- 44. Which pair of crops are cereals?
 - A. Groundnuts and Maize.
 - B. Barley and Rice.
 - C. Beans and Peas.
 - D. Wheat and Soya beans.
- 45. What is the use of wood ash in a compost heap?
 - A. To increase decaying process.
 - B. To add nutrients.
 - C. To keep the compost heap dry.
 - D. To add bacteria in the soil.
- 46. In which of the following parts of the digestive system does bile mix with fats?
 - A. Colon.
- B. Stomach.
- C. Ileum.
- D. Duodenum.

- 47. Animals adapted to flight have streamlined bodies. This helps in
 - A. increasing friction between the body surface and the air
 - B. allowing them to move slowly
 - C. reducing the resistance to movement between the body surface and the air
 - D. making the wings remain stationary.
- 48. The diagram below shows an experiment which was done by a group of std 6 pupils.



Three of the following were the observations made after a short while except

- A. level of water in the trough reduced
- B. Level of water rose in the glass
- C. Candle did not stop burning immediately
- D. Level of water reduced in the glass.
- 49. The following are the main functions of the amniotic fluid except
 - A. allows the foetus to turn freely in the uterus
 - B. helps to protect the foetus from getting hurt when something presses the mother's belly
 - C. acts as a shock absorber
 - D. helps in dilating the cervix.
- 50. Which of the following pairs of blood vessels carries blood away from the heart?
 - A Pulmonary vein and aorta.
 - B. Pulmonary artery and aorta.
 - C. Venacava and pulmonary vein.
 - D. Aorta and Venacava.