

1. Water that forms lather readily with soap is said to be

- A. clean
- B. hard
- C. soapy
- D. soft

2. Which of the following life activities are common to both plants and animals?

- I. Feeding
 - II. Locomotion
 - III. Respiration
- A. I and II only
 - B. I and III only
 - C. II and III only
 - D. I, II and III

3. A suitable instrument that could be used to measure the internal diameter of a bamboo flute is

- A. beam balance
- B. metre rule
- C. surveyor's tape
- D. vernier calipers

4. The ability of soils to supply the right amounts of essential nutrients to plants is known as

- A. soil consistency
- B. soil fertility
- C. soil structure
- D. soil texture

5. The simplest way of making well water suitable for laundry purposes is by

- A. adding alum
- B. boiling
- C. chlorination
- D. filtering

6. Washing down of soil nutrients beyond the reach of roots of plants is referred to as

- A. aeration
- B. infiltration
- C. leaching
- D. percolation

7. Which of the following statements explain(s) why an object floats in water? A floating object

I. is less dense than water

II. is denser than water

III. has the same density as water

A. I only

B. II only

C. III only

D. I and III only

8. An example of leafy vegetable crops is

A. cucumber

B. lettuce

C. okro

D. onion

9. The structure in the respiratory system of humans where gaseous exchange occurs is

A. alveolus

B. bronchus

C. nostril

D. trachea

10. The gas produced when glucose is oxidized during internal respiration is

A. carbon (II) oxide

B. carbon (IV) oxide

C. hydrogen

D. nitrogen

11. The farm animal which has crop as part of its digestive system is the

A. fowl

B. goat

C. pig

D. sheep

12. A beneficial effect of wind on the environment is

A. promotion of photosynthesis in green plants

B. pollination in flowering plants

C. leaching in soils

D. erosion in soils

13. The chemical solution that can be used to test for the presence of protein in food substances is

A. Benedict's solution

B. Fehling's solution

- C. Iodine solution
- D. Million's reagent

14. Which of the following statements about bush fires is/are true?

- I. They cause air pollution
 - II. They deplete vegetation cover`
 - III. They contribute to global warming
- A. I only
 - B. II only
 - C. II and III only
 - D. I, II and III

15. The most effective method of controlling soil erosion on steep slopes is

- A. cover cropping
- B. mulching
- C. strip cropping
- D. terracing

16. Which of the following agencies is responsible for providing information on the weather and climatic conditions of an area?

- A. Animal Husbandry Department
- B. Extension Services Department
- C. Information Services Department
- D. Meteorological Services Department

17. The farming system which involves the growing of one type of crop on the same piece of land every season is known as

- A. mixed cropping
- B. mixed farming
- C. mono cropping
- D. monoculture

18. The fifth planet from the sun in the solar system is

- A. Jupiter
- B. Mars
- C. Neptune
- D. Venus

19. The process that takes place when the sperm and the egg of humans fuse together is referred to as

- A. fertilization
- B. menstruation
- C. ovulation
- D. reproduction

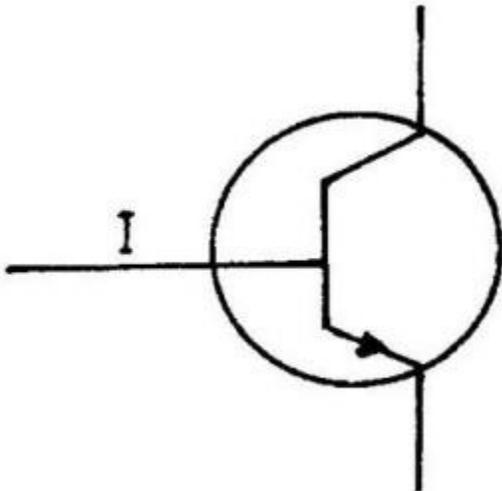
20. The process by which water vapour moves through the stomata of leaves into the atmosphere is known as

- A. absorption
- B. diffusion
- C. osmosis
- D. transpiration

21. An example of intensive system of poultry keeping is the

- A. deep litter system
- B. fold unit system
- C. free range system
- D. Free-running system

22. The diagram below represents a circuit symbol in an electronic device. Study it carefully and use it to answer questions 22 and 23



The symbol represents

- A. a light emitting diode
- B. $n-p-n$ transistor
- C. light dependent resistor
- D. $p-n-p$ transistor

23. The part of the diagram labelled I has

- A. more electrons than holes
- B. no holes
- C. more holes than electrons
- D. the same number of holes as electrons

24. A spot made on a white paper with a given food substance turned the spot on the paper translucent. The food substance is likely to contain

- A. glucose

- B. oil
- C. protein
- D. starch

25. Which of the following sources of energy is non-renewable?

- A. Sun
- B. Waves
- C. Wind
- D. wood

26. Which of the following farm animals is / are housed in a hutch?

- I. Goats
 - II. Pigs
 - III. Rabbits
- A. I only
 - B. III only
 - C. I and II only
 - D. II and III only

27. Which of the following blood vessels carries deoxygenated blood?

- A. Aorta
- B. Pulmonary artery
- C. Pulmonary vein
- D. Renal artery

28. The energy transformation that takes place in a car battery is

- A. electrical energy → chemical energy → light energy
- B. chemical energy → light energy → electrical energy
- C. chemical energy → electrical energy → light energy
- D. electrical energy → light energy → chemical energy

29. The type of liquid suitable to construct a thermometer to read temperatures of about 150°C is

- A. alcohol
- B. mercury
- C. turpentine
- D. water

30. Amino acids are the end-products of the digestion of

- A. carbohydrates
- B. fats
- C. oils
- D. proteins

31. The type of teeth used by mammals to cut food materials is

- A. canine
- B. incisor
- C. molar
- D. premolar

32. Fishponds are often stocked using

- A. anchovies
- B. fingerlings
- C. fish eggs
- D. fries

33. Which of the following processes result(s) in the formation of a new substance?

- I. Burning of wood
 - II. Rusting of iron nail
 - III. Heating water into vapour
- A. I only
 - B. I and II only
 - C. II and III only
 - D. I, II and III

34. The use of resistant breeds of farm animals in controlling diseases is a

- A. biological control method
- B. chemical control method
- C. cultural control method
- D. physical control method

35. A load of 10 N is moved through a distance of 2 m. Calculate the work done.

- A. 5 J
- B. 10 J
- C. 20 J
- D. 50 J

36. Which of the following components of human blood is dissolved in the plasma?

- A. Mineral salts
- B. Phagocytes
- C. Platelets
- D. Red blood cells

37. An atom of carbon is represented as $^{12}_{6}\text{C}$. How many neutrons are in the nucleus of the carbon atom?

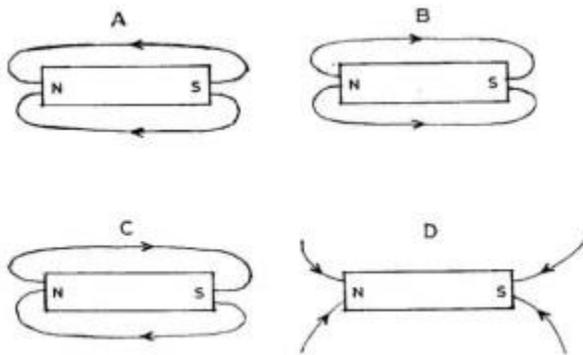
- A. 2

- B. 4
- C. 6
- D. 12

38. In agribusiness, middlemen operate within the

- A. production chain
- B. processing chain
- C. supply chain
- D. value chain

39. Which of the following illustrations shows the correct direction of the lines of force around a bar magnet?



40. The human sex cells are produced in the

- A. scrotum and uterus
- B. testis and ovary
- C. penis and vagina
- D. scrotum and ovary