

INTEGRATED SCIENCE 1

1. Brass is an alloy of
 - A. iron and carbon
 - B. zinc and copper
 - C. iron and copper
 - D. copper and tin

2. An example of inorganic fertilizer is
 - A. ammonium nitrate
 - B. cow dung
 - C. farmyard manure
 - D. poultry dropping

3. The component of the human blood which transports oxygen to all parts of the body is
 - A. plasma
 - B. platelets
 - C. red blood cells
 - D. white blood cells

4. The importance of the fuse in an electrical circuit is to
 - A. regulate the voltage
 - B. prevent damage to electrical appliances
 - C. alter the flow of current in the circuit
 - D. minimize the use of current

5. Which of the following step(s) is/are required in the scientific method?
 - I. Formulation of hypothesis
 - II. Identification of the problem
 - III. Experimentation
 - A. I only
 - B. II only
 - C. II and III only
 - D. I, II and III

6. Which of the following food items produces amino acids as end product of digestion?
 - A. Cabbage
 - B. Fish
 - C. Margarine
 - D. Rice

7. The process of increasing the strength of a signal using a transistor is known as
 - A. amplification
 - B. biasing
 - C. doping
 - D. switching

8. The physical arrangement of soil particles into aggregates is termed
 - A. soil porosity
 - B. soil profile
 - C. soil structure
 - D. soil texture

9. The solvent which is most effective in washing bitumen from the hand is
- acid
 - alcohol
 - kerosene
 - water
10. A piece of stone could be classified as an opaque material because it
- absorbs all the light incident on it
 - does not absorb light incident on it
 - allows all the light incident on it to pass through it
 - does not allow light incident on it to pass through it
11. Fish swims in water with little resistance because it possesses
- gills
 - scales
 - caudal fins
 - streamlined body
12. Which of the following conditions promote(s) rusting of iron?
- Air
 - Moisture
 - Oil
- I only
 - II only
 - I and II only
 - II and III only
13. The change in the volume of water when a piece of stone is dropped into it is equal to the
- density of the stone
 - mass of the stone
 - volume of the stone
 - weight of the stone
14. The second stage in the life cycle of a mosquito is the
- egg
 - imago
 - larva
 - pupa
15. Which of the following objects could be attracted by a magnet?
- Copper chain
 - Gold chain
 - Steel blade
 - Aluminium spoon
16. The knowledge of soil texture is important because it
- influences plant population
 - determines the planting distance
 - determines the type of crop to be grown
 - influences the method of pest control
17. How many atoms are present in CaCl_2 ?
- 2
 - 3

- C. 4
- D. 5

18. The transfer of heat from the bottom to the top of a beaker containing water is by

- A. absorption
- B. conduction
- C. convection
- D. radiation

19. An example of a chemical compound is

- A. aluminium
- B. ammonia
- C. oxygen
- D. phosphorus

20. The type of the human teeth used for biting food substances is

- A. canines
- B. incisors
- C. molars
- D. premolars

21. Which of the following heavenly bodies is a star?

- A. Jupiter
- B. Moon
- C. Sun
- D. Venus

22. Which of the following organisms is an endoparasite?

- A. Fleas
- B. Louse
- C. Tapeworm
- D. Tick

23. The part of the plant where pollination occurs is the

- A. flowers
- B. leaves
- C. roots
- D. stems

24. Which of the following substances is capable of neutralizing an acid?

- A. Vinegar
- B. Water
- C. Sodium chloride
- D. Sodium hydroxide

25. Droplet infection is the method by which

- A. diseases are transmitted from animals to plants
- B. infected animals are processed
- C. human beings protect themselves from diseases
- D. diseases are spread through the air

26. An example of a derived quantity is

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

27. A structure in the human reproductive system which stores sperms temporarily is the
- epididymis
 - penis
 - scrotum
 - vulva
28. Which of the following statements about diffusion is/are correct?
- It involves the movement of water molecules only
 - It occurs in both gases and liquids
 - It involves a semi-permeable membrane
- I only
 - II only
 - I and II only
 - I, II and III
29. A farming system which requires at least three years programme is
- mixed cropping
 - crop rotation
 - organic farming
 - mixed farming
30. The component of a living cell responsible for respiration is
- chloroplast
 - mitochondria
 - nucleus
 - vacuole
31. Which of the following statements about a second class lever is correct? The
- pivot is between the load and the effort
 - pivot and the load are at the same position
 - load is between the effort and the pivot
 - effort is between the load and the pivot
32. One advantage of soft water over hard water is that soft water
- has a pleasant taste
 - can prevent heart diseases
 - does not waste soap
 - forms scales in kettles
33. The gas produced when glucose is oxidized during aerobic respiration is
- hydrogen
 - nitrogen
 - oxygen
 - carbon dioxide
34. The systematic name for N_2O is
- nitrogen (I) oxide
 - nitrogen (II) oxide
 - nitrogen (III) oxide
 - nitrogen (IV) oxide
35. A husbandry practice which involves the removal of unwanted plant parts is known as
- mulching
 - pruning

- C. thinning
- D. pricking out

36. The number of p-n junctions in a transistor is

- A. 1
- B. 2
- C. 3
- D. 4

37. Fruits dispersed by wind

- A. have hairs
- B. are sticky
- C. are succulent
- D. have hooks

38. Substances that burn living tissues when they come into contact with these tissues are considered

- A. corrosive
- B. flammable
- C. irritant
- D. toxic

39. The function of the platelets in the circulatory system of humans is to

- A. transport oxygen
- B. transport carbon dioxide
- C. clot the blood
- D. defend the body

40. Energy is the

- A. force to move an object
- B. weight to do work
- C. ability to do work
- D. power to carry an object