

INTEGRATED SCIENCE 1

1. The S.I unit of temperature is

- A. candela
- B. degree Celsius
- C. joule
- D. kelvin

2. Air is an example of

- A. gas in gas mixture
- B. liquid in liquid mixture
- C. solid in liquid mixture
- D. solid in solid mixture

3. Which of the following activities are involved in the rearing of tilapia?

- I. Feeding of fish
- II. Pond stocking
- III. Pest control

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

4. The part of the flower that contains nectar is called

- A. anther
- B. petal
- C. ovary
- D. sepal

5. Which of the following methods protects pure iron from rusting by coating with zinc?

- A. Alloying
- B. Galvanizing
- C. Greasing
- D. Painting

6. Leaching of nutrients from the soil leads to soil

- A. acidity
- B. alkalinity
- C. erosion
- D. porosity

7. The hereditary material that is passed on from parents to offspring is known as

- A. gene
- B. sperm
- C. red blood cell
- D. white blood cell

8. The solar system is made up of the

- A. earth, moon and stars
- B. sun, comets and meteors
- C. sun, earth and moon
- D. sun, planets and other heavenly bodies

9. The type of management system which allows farm animals to roam about freely is known as

- A. extensive system
- B. intensive system
- C. semi-extensive system
- D. semi-intensive system

10. External respiration in living organisms is also known as

- A. aerobic respiration
- B. anaerobic respiration
- C. gaseous respiration
- D. tissue respiration

11. A rigid bar which is capable of turning about a fixed point is a / an

- A. inclined plane
- B. lever
- C. screw
- D. wheel and axle

12. A positively charged ion is called

- A. anion
- B. cation
- C. neutron
- D. proton

13. One way of ensuring that organisms are not endangered is to

- A. allow them to be hunted
- B. allow their predators to outnumber them
- C. protect their habitats
- D. pollute their habitats

14. A good thermometric liquid must

- A. be colourless
- B. boil at  $100^{\circ}\text{C}$  and freeze at  $0^{\circ}\text{C}$
- C. cling to the walls of the glass
- D. expand evenly and regularly

15. Which of the following metals will produce a gas when placed in lime juice?

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

16. The physical property of a soil which is determined by the feel method is soil

- A. structure
- B. temperature
- C. texture
- D. water

17. The reason why gaps are left in the joints of railway lines is to allow for

- A. cooling
- B. contraction
- C. expansion
- D. maintenance

18. Which of the following effects are caused by rusting?

- I. Loss of strength
- II. Loss of structure
- III. Loss of electrical conductivity

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

19. Leguminous crops may often be cultivated to add

- A. carbon to the soil
- B. nitrogen to the soil
- C. protein to the soil
- D. potassium to the soil

20. A place where an organism can live and interbreed successfully is called

- A. community
- B. ecosystem
- C. environment
- D. habitat

21. Which of the following methods of treating water makes it soft?

- A. Addition of alum
- B. Addition of sodium carbonate
- C. Chlorination
- D. Filtration

22. Dehusking and shelling are both activities carried out in the processing of

- A. cowpea
- B. groundnut
- C. maize
- D. sorghum

23. Typhoid fever is transmitted through

- A. contact with contaminated skin wounds
- B. eating contaminated food
- C. eating uncooked food
- D. drinking treated water

24. One advantage of friction is that it

- A. enables cutting tools to be sharpened
- B. increases the efficiency of machines
- C. produces a lot of heat in machines
- D. wears off the soles of shoes

25. Sickle is a farm tool used for

- A. harvesting rice
- B. trimming hedges
- C. transplanting seedlings
- D. watering crops

26. One characteristic of the image formed in a pin-hole camera is that the image is

- A. diminished
- B. magnified
- C. upright
- D. virtual

27. Transplanting of seedlings is usually done in the evening because

- A. darkness promotes rapid growth
- B. pest attack is minimal
- C. transpiration is minimal
- D. seedlings require less nutrients

28. Which of the following statements about molecules is/ are correct? Molecules

- I. are chemically combined group of atoms
- II. are physically combined group of atoms
- III. can exist on their own

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

29. Fruits which are dispersed by wind are likely to be

- A. dry
- B. hairy
- C. juicy
- D. sticky

30. Which of the following materials allows electric current to pass through easily?

- A. Aluminium
- B. Carbon

- C. Glass
- D. Water

31. Water contains two elements, hydrogen and oxygen, in the ratio of

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

32. In the digestive system of ruminants, vitamins are synthesized in the

- A. abomasum
- B. omasum
- C. reticulum
- D. rumen

33. The best way of protecting oneself from high blood pressure is to

- A. consume alcoholic drinks
- B. eat high carbohydrate diets
- C. engage in smoking
- D. exercise regularly

34. The property of metals which makes them to be easily drawn into thin wires is known as

- A. conductivity
- B. ductility
- C. malleability
- D. resistivity

35. An atom of an element is represented as . How many neutrons are in the nucleus of the atom?

- A. 13
- B. 14
- C. 27
- D. 40

36. Viable seeds are ones that

- A. are able to germinate under suitable conditions
- B. are eaten by animals after planting
- C. contain a lot of oil
- D. have hard seed coat

37. Which of the following processes can occur at all temperatures?

- A. Boiling
- B. Evaporation
- C. Melting
- D. Sublimation

38. Which of the following human activities maintains the carbon cycle?

- A. Bush burning
- B. Felling of trees

- C. Release of fumes from factories
- D. Replanting of trees felled as timber

39. 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. monocropping
- D. monoculture

40. The presence of chlorophyll in green plants is a necessary condition for photosynthesis because it

- A. absorbs oxygen
- B. absorbs solar energy
- C. produces carbon dioxide
- D. produces water vapour