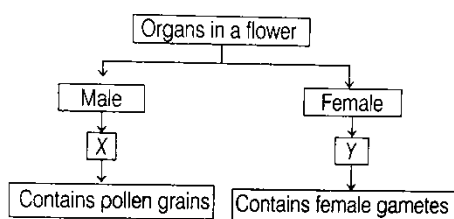


Instructions:-

- 1. Question No. 1 to 40 Carries 1 mark**
- 2. Question No. 41 to 45 Carries 2 marks**

1. What process do plants use to convert sunlight into chemical energy?
A) Respiration B) Photosynthesis C) Transpiration D) Fermentation
2. Which of the following is a conductor of electricity?
A) Wood B) Rubber C) Copper D) Glass
3. What is the smallest unit of life?
A) Tissue B) Organ C) Cell D) Organism
4. What is the main gas produced during photosynthesis?
A) Oxygen B) Carbon Dioxide C) Nitrogen D) Hydrogen
5. Which of the following is not a type of rock?
A) Igneous B) Metamorphic C) Sedimentary D) Lithospheric
6. What part of the cell is responsible for controlling activities?
A) Cell Membrane B) Nucleus C) Cytoplasm D) Ribosome
7. What is the acceleration due to gravity on Earth?
A) 8.9 m/s^2 B) 9.8 m/s^2 C) 10.5 m/s^2 D) 11.2 m/s^2
8. Which substance has a pH greater than 7?
A) Lemon juice B) Vinegar C) Soap D) Hydrochloric acid
9. Observe the flowchart given below and identify X & Y in it.



- | | X | Y |
|----|--------|--------|
| A) | Stamen | Ovule |
| B) | Stigma | Pistil |
| C) | Style | Stigma |
| D) | Anther | Ovary |

10. What is the primary function of white blood cells?
A) Carry oxygen B) Aid in digestion C) Fight infections D) Clot blood
11. What is the main source of energy for the Earth?
A) The Moon B) The Sun
C) Geothermal energy D) Wind
12. Which of the following is an example of a non-renewable resource?
A) Solar energy B) Wind energy C) Natural gas D) Hydropower
13. What type of wave is sound?
A) Electromagnetic B) Longitudinal
C) Transverse D) Surface
14. Which organ in the human body is primarily responsible for filtering blood?
A) Heart B) Liver C) Kidney D) Lungs
15. What do you call the phenomenon where a liquid turns into vapor?
A) Condensation B) Sublimation C) Evaporation D) Filtration
16. Which of the following is a plant hormone that promotes growth?
A) Ethylene B) Acetic acid C) Auxin D) Cytokinin

17. What is the primary function of the respiratory system?

- A) Circulate blood
- B) Digest food
- C) Exchange gases
- D) Produce hormones

18. In which part of the plant does photosynthesis primarily take place?

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

19. What is the boiling point of water at sea level?

- A) 50 °C
- B) 75 °C
- C) 100 °C
- D) 150 °C

20. Which layer of the Earth's atmosphere contains the Ozone layer?

- A) Troposphere
- B) Stratosphere
- C) Mesosphere
- D) Thermosphere

21. What are the basic building blocks of proteins?

- A) Nucleotides
- B) Amino acids
- C) Fatty acids
- D) Sugars

22. What is Newton's first law of motion also known as?

- A) Law of Acceleration
- B) Law of Inertia
- C) Law of Gravity
- D) Law of Action-Reaction

23. What type of simple machine is a lever?

- A) Inclined plane
- B) Pulley
- C) Fulcrum
- D) Lever

24. Which part of the eye controls the amount of light entering?

- A) Retina
- B) Cornea
- C) Iris
- D) Lens

25. **Read the given statements.**

- (i) Butterflies suck the nectar by using their coiled mouth parts called _____
- (ii) Amoeba engulfs tiny particles of food by surrounding it with _____
- (iii) Rabbits and squirrels eat their food by _____
- (iv) _____ is the process by which some aquatic animals feed on small particles of food suspended in water.

Select the option which correctly fills the blanks in any two of these statements.

- A) (i) Proboscis; (iii) Scraping
- B) (ii) Cilia; (iv) Gnawing
- C) (iii) Gnawing; (iv) Filter Feeding
- D) (i) Pseudopodia; (ii) Tentacles

26. What is the main component of natural gas?

- A) Ethanol
- B) Methane
- C) Propane
- D) Butane

27. Ratan used excessive chemical fertilisers in his field while the soil in Raman's house field was found to be basic in nature. What should they add to their fields to improve the quality of the soil.

- (A) Ratan: Organic matter
Raman: Quick lime
- (B) Ratan: Quick lime
Raman: Organic matter
- (C) Both should add quick lime.
- (D) Both should add organic matter.

28. How many teeth does an adult human typically have?

- A) 28
- B) 30
- C) 32
- D) 34

29. In genetics, what does DNA stand for?

- A) Deoxyribonucleic Acid
- B) Deoxysugar Nucleotide Acid
- C) Dicarboxylic Nucleotide Amine
- D) Deoxyribonitric Acid

30. What type of organism is essential for nitrogen fixation in the soil?

- A) Fungi B) Bacteria C) Plants D) Animals

31. What type of current flows in a circuit when connected to a battery?

- A) Alternating current B) Direct current
C) Inductive current D) Capacitive current

32. Which of the following gases is a product of respiration?

- A) Oxygen B) Carbon Dioxide
C) Nitrogen D) Hydrogen

33. What type of symmetry does a starfish exhibit?

- A) Bilateral symmetry B) Radial symmetry
C) Asymmetry D) None

34. Which organ in the human body produces bile?

- A) Pancreas B) Stomach C) Liver D) Gallbladder

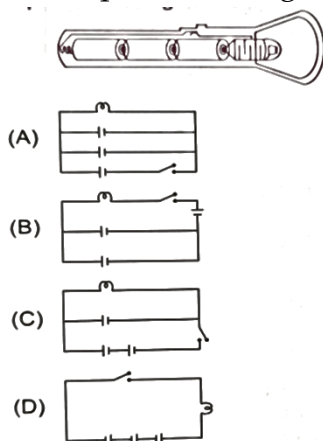
35. Consider the following statements.

- I) Wasp sting venom can be neutralised by an acid.
II) Litmus indicators become green in neutral solution.
III) Salts obtained from nitric acid are called nitrates.

The correct statements are

- A) I and II B) II and III C) I and III D) I, II and III

36. Which of the given circuit diagrams represents the given torch?



37. What do we call the movement of water through a semi-permeable membrane?

- A) Condensation B) Diffusion C) Filtration D) Osmosis

38. Which type of wave can travel through a vacuum?

- A) Sound waves B) Water waves
C) Electromagnetic waves D) Longitudinal waves

39. What is the primary function of the roots of the plant?

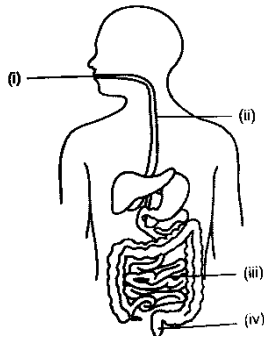
- A) Photosynthesis B) Anchoring the plant and absorbing water
C) Reproduction D) Storing energy

40. What gas is produced by the combustion of fossil fuels?

- A) Oxygen B) Nitrogen
C) Carbon Dioxide D) Hydrogen

ACHIEVER'S SECTION

41. Refer to the given diagram of human digestive system. Identify the labelled parts (i)-(iv) and select the **incorrect** match of labelled part and its function.



- A) (i) – Helps in mechanical breakdown of food.
- B) (ii) – Secretes bile that helps in digestion of fats.
- C) (iii) – Absorbs nutrients from the digested food.
- D) (iv) – Stores faeces temporarily.

42. What do we call the process by which a caterpillar becomes a butterfly?

- A) Evolution
- B) Metamorphosis
- C) Photosynthesis
- D) Commensalism

43. What is the most abundant gas in the Earth's atmosphere?

- A) Oxygen
- B) Nitrogen
- C) Carbon Dioxide
- D) Helium

44. Which organ/ gland in the body is primarily responsible for detoxifying harmful substances?

- A) Kidney
- B) Liver
- C) Stomach
- D) Spleen

45. The letter G is placed in front of a plane mirror. How would its image look like when seen in the mirror?

