

Class 7th science mcq

1. Which pigment is responsible for photosynthesis in plants?

- A) Carotene
- B) Chlorophyll
- C) Haemoglobin
- D) Melanin

Answer: B) Chlorophyll

2. Which of the following is NOT required for photosynthesis?

- A) Carbon dioxide
- B) Oxygen
- C) Sunlight
- D) Water

Answer: B) Oxygen

3. Which type of nutrition do fungi follow?

- A) Autotrophic
- B) Parasitic
- C) Saprotrophic
- D) Heterotrophic

Answer: C) Saprotrophic

4. Which of the following is an example of a parasitic plant?

- A) Cactus
- B) Mushroom
- C) Pitcher plant
- D) Cuscuta (Amarbel)

Answer: D) Cuscuta (Amarbel)

5. How do leguminous plants help in replenishing nutrients in the soil?

- A) They release oxygen into the soil
- B) Their roots fix nitrogen with the help of Rhizobium bacteria
- C) They absorb extra nutrients from the soil
- D) They convert sunlight into nutrients

Answer: B) Their roots fix nitrogen with the help of Rhizobium bacteria

6. Which of the following is NOT a mode of feeding in animals?

- A) Saprophytic
- B) Parasitic
- C) Autotrophic
- D) Holozoic

✓ **Answer:** C) Autotrophic

7. In which part of the digestive system does the complete digestion of food take place in humans?

- A) Stomach
- B) Small intestine
- C) Large intestine
- D) Liver

✓ **Answer:** B) Small intestine

8. What is the function of the rumen in grass-eating animals?

- A) Storage of food
- B) Partial digestion of food
- C) Absorption of nutrients
- D) Excretion of waste

✓ **Answer:** B) Partial digestion of food

9. How does an Amoeba ingest food?

- A) Through tentacles
- B) By using cilia
- C) By engulfing food with pseudopodia
- D) By filtering food through gills

✓ **Answer:** C) By engulfing food with pseudopodia

10. Which of the following digestive enzymes is present in saliva?

- A) Pepsin
- B) Trypsin
- C) Amylase
- D) Lipase

✓ **Answer:** C) Amylase

chapter "**Respiration in Organisms**":

11. Which organ is primarily responsible for respiration in humans?

- a) Heart
- b) Lungs
- c) Liver
- d) Kidneys

Answer: b) Lungs

12. Which gas is taken in during inhalation and used for respiration?

- a) Carbon dioxide
- b) Nitrogen
- c) Oxygen
- d) Hydrogen

Answer: c) Oxygen

13. How do fish breathe underwater?

- a) Using lungs
- b) Through spiracles
- c) By absorbing oxygen through the skin
- d) Using gills

Answer: d) Using gills

14. Insects like cockroaches breathe through which structures?

- a) Gills
- b) Lungs
- c) Spiracles and trachea
- d) Skin

Answer: c) Spiracles and trachea

15. What is the process of respiration in plants called?

- a) Photosynthesis
- b) Transpiration
- c) Germination
- d) Cellular respiration

Answer: d) Cellular respiration

16. Which component of blood helps in clotting?

- a) Red Blood Cells (RBC)
- b) White Blood Cells (WBC)
- c) Platelets
- d) Plasma

Answer: c) Platelets

17. What is the main function of the heart?

- a) To digest food
- b) To pump blood throughout the body
- c) To produce oxygen
- d) To remove waste from the body

Answer: b) To pump blood throughout the body

18. Which organ is responsible for filtering waste from the blood in animals?

- a) Heart
- b) Liver
- c) Lungs
- d) Kidneys

Answer: d) Kidneys

19. In plants, water is transported through which tissue?

- a) Phloem
- b) Xylem
- c) Epidermis
- d) Parenchyma

Answer: b) Xylem

20. Which blood vessel carries oxygenated blood from the heart to the rest of the body?

- a) Veins
- b) Capillaries
- c) Arteries
- d) Nerves

Answer: c) Arteries

chapter "**Reproduction in Plants**":

21. Which of the following is an example of asexual reproduction in plants?

- a) Pollination
- b) Budding in yeast
- c) Formation of seeds
- d) Fertilization

Answer: 🏆 (b) Budding in yeast

22. In sexual reproduction, the fusion of male and female gametes is called:

- a) Pollination
- b) Fertilization
- c) Germination
- d) Vegetative propagation

Answer: 🏆 (b) Fertilization

23. Which of the following is NOT a method of asexual reproduction in plants?

- a) Fragmentation
- b) Budding
- c) Pollination
- d) Spore formation

Answer: 🏆 (c) Pollination

24. The transfer of pollen grains from the anther to the stigma of a flower is called:

- a) Germination
- b) Pollination
- c) Fertilization
- d) Dispersal

Answer: 🏆 (b) Pollination

25. Which of the following agents help in seed dispersal?

- a) Wind
- b) Water
- c) Animals
- d) All of the above

Answer: 🏆 (d) All of the above

chapter **Motion and Time:**

26. Which of the following is an example of periodic motion?

- A) A car moving on a straight road
- B) A simple pendulum swinging back and forth
- C) A person running in a park
- D) A stone falling from a height

Answer: B) A simple pendulum swinging back and forth

27. The SI unit of speed is:

- A) Kilometer per second (km/s)
- B) Meter per second (m/s)
- C) Kilometer per hour (km/h)
- D) Centimeter per second (cm/s)

Answer: B) Meter per second (m/s)

28. If the speed of an object remains the same throughout the journey, the motion is called:

- A) Non-uniform motion
- B) Variable motion
- C) Uniform motion
- D) Periodic motion

Answer: C) Uniform motion

29. In a distance-time graph, a straight line parallel to the x-axis represents:

- A) An object moving with uniform speed
- B) An object at rest
- C) An object moving with non-uniform speed
- D) An object accelerating

Answer: B) An object at rest




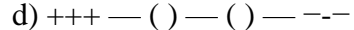
30. What happens to the time period of a simple pendulum if the length of the string is increased?

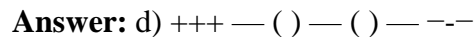
- A) The time period decreases
- B) The time period increases
- C) The time period remains unchanged
- D) The pendulum stops oscillating

Answer: B) The time period increases

chapter "**Electric Current and Its Effects**":

31. Which of the following symbols represents a battery?

- a) 
- b) 
- c) 
- d) 

Answer: d) 

32. The heating effect of electric current is used in which of the following appliances?

- a) Electric bulb
- b) Electric iron
- c) Electric heater
- d) All of the above

Answer: d) All of the above

33. The magnetic effect of electric current was discovered by:

- a) Thomas Edison
- b) Alessandro Volta
- c) Hans Christian Oersted
- d) Michael Faraday

Answer: c) Hans Christian Oersted

34. An electric fuse is used to:

- a) Increase the current in a circuit
- b) Protect the circuit from excessive current
- c) Store electric charge
- d) Convert electrical energy into mechanical energy

Answer: b) Protect the circuit from excessive current

35. What happens when an electric current flows through a wire?

- a) The wire gets heated
- b) A magnetic field is created around the wire
- c) The wire starts glowing
- d) Both (a) and (b)

Answer: d) Both (a) and (b)

chapter "**Light**":

36. Which of the following is true about the reflection of light?

- A) Light travels in a curved path after reflection
- B) The angle of incidence is always greater than the angle of reflection
- C) The angle of incidence is equal to the angle of reflection
- D) Light is absorbed completely by a mirror

Answer: C) The angle of incidence is equal to the angle of reflection

37. A concave mirror forms a real, inverted, and same-sized image when the object is placed at:

- A) Focus (F)
- B) Center of Curvature (C)
- C) Between Focus and Pole
- D) Between Focus and Center of Curvature

Answer: B) Center of Curvature (C)

38. Which type of lens is used in magnifying glasses?

- A) Concave lens
- B) Convex lens
- C) Plane mirror
- D) Concave mirror

Answer: B) Convex lens

39. The splitting of white light into its seven colors when passed through a prism is called:

- A) Reflection
- B) Refraction
- C) Dispersion
- D) Diffraction

Answer: C) Dispersion

40. The image formed by a plane mirror is:

- A) Real and inverted
- B) Virtual and erect
- C) Enlarged and real
- D) Diminished and inverted

Answer: B) Virtual and erect

chapter "**Wastewater Story**" covering **Sewage and its Treatment, Better Disposal Practices, and Sanitation & Health:**

41. Which of the following is NOT a component of sewage?

- A) Oxygen
- B) Human excreta
- C) Chemicals from industries
- D) Nutrients

Answer: A) Oxygen

42. What is the main purpose of a sewage treatment plant?

- A) To generate electricity
- B) To purify wastewater before releasing it into water bodies
- C) To remove oxygen from water
- D) To increase the amount of sewage

Answer: B) To purify wastewater before releasing it into water bodies

43. Which of the following is an example of a better wastewater disposal practice?

- A) Dumping untreated sewage into rivers
- B) Using composting toilets and septic tanks
- C) Pouring kitchen oil and grease into the sink
- D) Throwing plastics into the drainage system

Answer: B) Using composting toilets and septic tanks

44. Which method is used to remove solid waste from sewage in a wastewater treatment plant?

- A) Aeration
- B) Sedimentation
- C) Chlorination
- D) Boiling

Answer: B) Sedimentation

45. Why is sanitation important for public health?

- A) It reduces the spread of diseases
- B) It increases pollution
- C) It makes water unsafe for drinking
- D) It helps mosquitoes to breed

Answer: A) It reduces the spread of diseases