



Reverse Strategy – Solve, Revise & Improve your preparation with our

Prep Series Part - 5

50 QUESTIONS

GENERAL SCIENCE

- Q1. Consider the following statements
- A. Algae can prepare their own food by photosynthesis.
- R. Algae are green in colour and contain chlorophyll.

Select the correct code

- (a) If both A and R are correct and R correctly explain A
- (b) If both A and R are correct and R does not explain A
- (c) If only A is correct
- (d) If only R is correct

- Q2. Which of the following glands secrete digestive juices?

- (a) Salivary glands
- (b) The glands liver
- (c) The liver pancreas secrete
- (d) All a, b, c

- Q3. Consider the following statements.

1. It is a microscopic single-celled organism found in pond water.
2. It has a cell membrane, a rounded, dense nucleus and many small bubble-like vacuoles in its cytoplasm.
3. This organism constantly changes its shape and position.
4. It pushes out one, or more finger-like projections, called pseudopodia or false feet for movement and capture of food.

Which of the following organism possess the above characteristics?

- (a) Amoeba (b) Paramecium
- (c) Both a and b (d) Neither a nor b

- Q4. Consider the following statements regarding Viruses.

1. Viruses are made of protein and nucleic acids.
2. A virus may contain either DNA or RNA but not both.
3. Viruses possess enzymes necessary for the generation of energy.
4. Viruses can be cultured only in living cells and not in a synthetic medium.

Which among the above statements is/are correct?

- (a) 1, 2 and 4 only (b) 1, 2 and 3 only
- (c) 1 and 4 only (d) All of the above

- Q5. Consider the following statements regarding Tuberculosis.

1. Tuberculosis is one of the most common communicable diseases in India.
2. If the TB bacterium is exposed to a non-lethal dose of antibiotics combination it becomes drug resistant.
3. Resistance to second-line drugs is classified as 'multi-drug resistant' (MDR) TB while resistance to third-line drugs is classified as 'totally-drug resistant' (TDR) TB.



Which among the above statements is/are correct?

- (a) 1 and 2 only (b) 1 and 3 only
(c) 2 and 3 only (d) All of the above

Q6. Match the following:

Hormone	Gland
1. Calcitonin	A. Pituitary Gland
2. Cortisol	B. Pancreas
3. Insulin	C. Adrenal Gland
4. Oxytocin	D. Thyroid

Select the correct code

- (a) 1-D 2-C 3-B 4-A (b) 1-C 2-C 3-B 4-A
(c) 1-B 2-C 3-D 4-A (d) 1-B 2-C 3-A 4-D

Q7. Which of the following is/are associated with diabetes?

1. Higher sugar level in blood.
2. Lower sugar level in blood.
3. Lower insulin level in blood.
4. Higher insulin level in blood.

Select the correct code

- (a) 2 and 4 only (b) 1 and 2 only
(c) 2 and 3 only (d) 1 and 3 only

Q8. Consider the following statements.

- A. In asexual reproduction new plants are obtained without production of seeds or spores.
- R. Vegetative propagation is a type of asexual reproduction in which new plants are produced from roots, stems, leaves and buds.

Select the correct code

- (a) If both A and R are correct and R correctly explain A
- (b) If both A and R are correct and R does not explain A
- (c) If only A is correct
- (d) If only R is correct

Q9. Moderator is used in which of the following type of nuclear reactor?

1. Pressurized water reactor
2. Fast breeder reactor
3. Boiling water reactor
4. Heavy water reactor

Select the correct answer using the codes given below.

- (a) 1, 2 and 3 only (b) 1, 3 and 4 only
(c) 2, 3 and 4 only (d) 1, 2 and 4 only

Q10. Consider the following statements regarding diseases caused due to vitamin deficiencies.

1. Vitamin C deficiency causes Rickets.
2. Vitamin D deficiency causes Scurvy.
3. Vitamin B1 deficiency causes Beriberi.

Which of the given statement(s) are true?

- (a) 1 and 2 only (b) 2 and 3 only
(c) 3 only (d) All the above

Q11. Which of the following statements are exothermic reactions?

1. Combustion of fuels such as wood, coal and oil petroleum.
2. Condensation of rain from water vapour.
3. Melting ice cubes.
4. Formation of snow.
5. Rusting of iron.

Choose from the given codes.

- (a) 1, 2, 3 and 4 (b) 1, 2, 4 and 5
(c) 1, 3, 4 and 5 (d) 1, 2, 3, 4 and 5

Q12. Consider the following statements about Sickle cell Anemia.

1. The red blood cells are sickle shaped and it has an adverse effect on their oxygen carrying capacity.
2. Sickle-cell disease occurs when a person inherits two abnormal copies of the hemoglobin gene, one from each parent.
3. A person with a single abnormal copy does not experience symptoms and is said to be a carrier.

Which of them are true?

- (a) 1 and 3 only (b) 1 and 2 only
(c) 2 and 3 only (d) All the above

Q13. Identify the single-celled microorganisms from the following-

1. Bacteria
2. Some algae
3. Fungi
4. Protozoa

Select the correct code

- (a) 1, 2 and 3 only (b) 2 and 4 only



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(c) 1, 2 and 4 only (d) 1, 2, 3 and 4

Q14. Consider the following statements

1. Some bacteria and blue green algae are able to fix nitrogen from the atmosphere to enrich soil with nitrogen and increase its fertility.
2. These microbes are commonly called biological nitrogen fixers.

Which of the statements given above is/are correct?

- (a) 1 only (b) 2 only
(c) Both 1 and 2 (d) Neither 1 nor 2

Q15. 'Neutrinos are one of the fundamental particles which make up the universe'. Refer to following statements about it

1. They are electrically neutral elementary particles
2. They are not affected by any kind of force and are neutral in nature
3. The most important source of its generation is radioactive decay

Select the correct answer from the codes given below

- (a) Only 1 (b) 1 and 3
(c) 2 and 3 only (d) All the above

Q16. Consider the following statements regarding Prokaryotic cell

1. These are characterized by absences of nucleus and nucleus membrane.
2. Number of chromosome per cell depends upon the type of organism.
3. The chromosome is a circular ring lack in a centrosome.

Select the correct answer from the codes given below

- (a) 1 and 2 (b) 2 and 3
(c) 1 and 3 (d) All the above

Q17. Consider the following statements.

1. Pituitary glands produce the hormone adrenalin.
2. Adrenalin helps the body to adjust to stress when one is very angry, embarrassed or worried.

3. Adrenals glands also secrete growth hormone which is necessary for the normal growth of a person.

Which of the statements given above are incorrect?

- (a) 1 and 2 only (b) 2 and 3 only
(c) 1 and 3 only (d) 1, 2 and 3

Q18. Genetically engineered plants are created to facilitate which of the following

1. Increase resistance to pests.
2. Enable them to withstand drought.
3. Increase their nutritive value.

Select the correct answer using the codes given below.

- (a) 1 and 2 only (b) 1 and 3 only
(c) 2 and 3 only (d) 1, 2 and 3

Q19. Consider following statements regarding Escape velocity.

1. Escape velocity is minimum velocity required by an object to escape the atmosphere of earth.
2. Its value on earth is 11.16 km/hr.
3. Escape velocity on moon is greater than on earth

Choose the correct options from the codes given below

- (a) Only 1 is correct
(b) Only 1 and 2 is correct
(c) Both 2 and 3 are correct
(d) 1, 2 and 3 are correct

Q20. Consider the following about human eyes and select the answer from the codes given below.

1. Least distance of distinct vision is 20 cm.
2. Myopia is short sightedness corrected by convex lens
3. Hyper-metropia is long sightedness corrected by convex lens.

Select the correct code

- (a) Only 1 is correct
(b) Only 2 and 3 are correct
(c) Only 3 is correct
(d) 1 and 2 are correct



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Q21. Consider the following statements

1. Allotropes are two or more forms of the same element that contain equal numbers of protons but differ in the numbers of neutrons in their nuclei.
2. Isotopes are different structural modifications of an element; the atoms of the element are bonded together in a different manner.

Select the correct answer from the codes given below

- (a) Only 1 (b) Only 2
(c) Both 1 and 2 (d) Neither 1 nor 2

Q22. Identify the communicable diseases from the following.

1. Cholera 2. Common cold
3. Chicken pox 4. Tuberculosis

Select the correct code

- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4

Q23. Which of the following are the methods of asexual reproduction?

1. Fragmentation
2. Budding
3. Spore formation
4. Vegetative propagation

Select the correct code

- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4

Q24. Consider the following statements.

1. Fungi derive nutrition from dead, decaying matter. They are saprotrophs.
2. Plants like cuscuta are autotrophs.
3. Heterotrophs are plants and all animals that are dependent on others for their nutrition.

Which of the statements given above are correct?

- (a) 1 and 2 only (b) 2 and 3 only
(c) 1 and 3 only (d) 1, 2 and 3

Q25. Consider the following statements regarding human body:

- A. 50% of the mass of the human body is made up of six elements: oxygen, carbon,

hydrogen, nitrogen, calcium and phosphorus.

- B. Human blood contains small amounts of gold.
C. Exposing a person's skin to the rays of sun, increase blood pressure by causing level of nitric oxide to rise in the blood.

Choose the correct option:

- (a) Only A is correct (b) Only B is correct
(c) Only C is correct (d) All are correct

Q26. Which among the following is NOT one of the functions of bones in human body?

- (a) Calcium secretion to regulate its level in bone
- (b) Fat and mineral storage
- (c) Buffers the blood against excessive "pH" changes
- (d) It houses the bone marrow which produces blood cells.

Q27. Hidden hunger can be caused by a deficiency of which of the following?

1. Zinc 2. Iodine
3. Fats 4. Vitamin B

Select the correct answer using the codes given below.

- (a) 1, 2 and 3 only (b) 1, 3 and 4 only
(c) 2, 3 and 4 only (d) 1, 2 and 4 only

Q28. Consider the following statements.

1. The material synthesized near the ER (endoplasmic reticulum) is packaged and dispatched to various targets inside and outside the cell through this.
2. Its functions include the storage, modification and packaging of products in vesicles.
3. It is also involved in the formation of lysosomes.

Which of the following cell organelle possess the above characteristics?

- (a) Golgi apparatus (b) Lysosomes
(c) Mitochondria (d) Plastids

Q29. Which of the following diseases can be prevented by vaccination?

1. Cholera 2. Tuberculosis
3. Smallpox 4. Hepatitis



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Select the correct code

- (a) 1, 2 and 3 only (b) 2 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4

Q30. Which of the following statements is/are correct regarding fats?

1. Fats are needed for the formation of cell membrane.
2. Fats helps the body to absorb calcium from food
3. It's required to repair damaged tissue
4. Body cannot release energy in fats as quickly as the energy in carbohydrates.

Select the correct answer

- (a) 1 & 4 (b) Only 2
(c) Only 2 & 4 (d) Only 3 & 4

Q31. Carbon monoxide is produced from which of the following

1. Incomplete burning of fossil fuels.
2. Enteric fermentation in cattle.
3. Oil refineries.
4. Automobiles.

Select the correct answer using the codes given below.

- (a) 1, 2 and 3 only
(b) 1, 3 and 4 only
(c) 2, 3 and 4 only
(d) 1, 2 and 4 only

Q32. Correctly match the following-

Pollutants	Human Health Effect
-------------------	----------------------------

- | | |
|--------------------|------------------------------|
| A. Lead | 1. Lung Tissue damage |
| B. Nitrogen Oxide | 2. Nervous system |
| C. Carbon Monoxide | 3. Red Cells, Kidney failure |
| D. Arsenic | 4. Headache, Heart beat |

Select the correct code-

- (a) A – 1 B – 2 C – 3 D – 4
(b) A – 1 B – 2 C – 4 D – 3
(c) A – 4 B – 3 C – 2 D – 1
(d) A – 2 B – 1 C – 4 D – 3

Q33. Consider the following statements.

1. Starch and Cellulose are of plant origin.
2. Both of them are non polymers.
3. Both of them are made up of glucose molecules.

4. Iodine gives blue color with starch but not with cellulose.

Which of the above statements are correct?

- (a) All 1, 2, 3 & 4 (b) Only 2 & 3
(c) Only 1, 3 & 4 (d) Only 2, 3 & 4

Q34. Which of the following statements is incorrect?

- (a) Insulin suppresses the utilization of glucose.
- (b) Insulin helps conversion of glucose to glycogen in the liver and the skeletal muscles.
- (c) Insulin deficiency causes Diabetes Mellitus, in which glucose is not utilized in a normal way.
- (d) None of the above.

Q35. Consider the following statements

1. The white blood cells (WBC) contain a red pigment called haemoglobin which bind with oxygen and transports it to all the parts of the body and ultimately to all the cells.
2. The presence of haemoglobin makes blood appear red.
3. The blood also has red blood cells (RBC) which fight against germs that may enter our body.

Which of the statements given above are correct?

- (a) 1 and 2 only (b) 1 and 3 only
(c) 2 only (d) 1, 2, and 3

Q36. Match List-I with List-II and answer them correctly using the given codes:

List-I

List-II

- | | |
|---------------------|----------------|
| A. Bowman's Capsule | 1. Spinal Cord |
| B. A.V. Valves | 2. Brain |
| C. Cerebellum | 3. Kidney |
| D. Alveoli | 4. Heart |
| | 5. Lungs |

Codes:

- | | A | B | C | D |
|-----|---|---|---|---|
| (a) | 3 | 4 | 5 | 2 |
| (b) | 3 | 5 | 4 | 2 |
| (c) | 3 | 4 | 2 | 5 |
| (d) | 1 | 5 | 2 | 4 |



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Q37. Blood is the fluid which flows in blood vessels. Which of the following functions are performed by blood?

1. It transports substances like digested food from the small intestine to the other parts of the body.
2. It carries oxygen from the lungs to the cells of the body.
3. It also transports waste for removal from the body.

Select the correct code

- (a) 1 and 2 only (b) 2 and 3 only
(c) 1 and 3 only (d) 1, 2 and 3

Q38. Which of the following is/are an example of genetic diseases?

1. Ascariasis 2. Cystic fibrosis
3. Hemophilia

Select the correct answer using the codes given below.

- (a) 1 and 2 only (b) 1 and 3 only
(c) 2 and 3 only (d) 1, 2 and 3

Q39. Which of the following are viral diseases?

1. Influenza (flu) 2. Polio
3. Chicken pox 4. Typhoid

Select the correct code

- (a) 1, 2 and 3 only (b) 2 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4

Q40. Consider the following statements.

1. Cells were first discovered by Robert Hooke.
2. It was Robert Brown who discovered the nucleus in the cell.
3. Purkinje coined the term 'protoplasm' for the fluid substance of the cell.
4. The cell theory, that all the plants and animals are composed of cells and that the cell is the basic unit of life, was presented by two biologists, Schleiden and Schwann.

Which of the statements given above are correct?

- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4

Q41. Consider the following statements.

1. The fore-brain is the main thinking part of the brain.
2. Separate areas of the fore-brain are

specialized for hearing, smell, sight and so on.

Which of the statements given above is/are correct?

- (a) 1 only (b) 2 only
(c) Both 1 and 2 (d) Neither 1 nor 2

Q42. Identify the incorrect statement from the following.

- (a) In tissue culture, new plants are grown by removing tissue or separating cells from the growing tip of a plant.
- (b) Using tissue culture, many plants can be grown from one parent in disease-free conditions.
- (c) This technique is commonly used for ornamental plants.
- (d) Neither a nor b nor c

Q43. In plants, hormones perform various functions. In this respect which of these hormones are correctly matched with their function?

1. **Abscisic acid** : promotes growth
2. **Cytokinins** : cell division
3. **Auxins** : saves the crop from falling

Select the correct answer using the codes given below.

- (a) 1 and 2 only (b) 1 and 3 only
(c) 2 and 3 only (d) 1, 2 and 3

Q44. Permanent hardness of water can be removed by which of the following?

1. Adding sodium carbonate
2. Boiling
3. Adding caustic soda
4. Distillation

Select the correct answer using the codes given below.

- (a) 1 and 3 only (b) 1, 3 and 4 only
(c) 2, 3 and 4 only (d) 1, 2 and 4 only

Q45. Gunpowder consists of a mixture of which of the following?

1. TNT 2. Nitre
3. Sulphur 4. Charcoal

Select the correct answer using the codes given below.

- (a) 1, 2 and 3 only (b) 1, 3 and 4 only
(c) 2, 3 and 4 only (d) 1, 2 and 4 only



Q46. Which of the following are the components of food?

1. Carbohydrates
2. Proteins
3. Fats
4. Vitamins
5. Minerals

Select the correct code

- (a) 1, 2, 3 and 4 only (b) 2, 3, 4 and 5 only
(c) 1, 3, 4 and 5 only (d) 1, 2, 3, 4 and 5

Q47. Consider the following pairs and identify the correct ones

1. Ptyline : Carbohydrate
2. Pepsin : Protein
3. Lactase : Fat

Select the correct answer from the codes given below

- (a) Only 1 (b) 1 and 2 only
(c) 2 and 3 only (d) All the above

Q48. Blood is a type of -

- (a) Epithelial tissue (b) Connective tissue
(c) Muscular tissue (d) Nervous tissue

Q49. Which of the following are composed of the nervous tissue?

- (a) The brain (b) Spinal cord
(c) Both a and b (d) Neither a nor b

Q50. What is the correct sequence in development?

- (a) Fertilization - Zygote - Cleavage - Morula - Blastula - Gastrula
(b) Fertilization - Zygote - Blastula - Morula - Cleavage - Gastrula
(c) Zygote - Fertilization - Cleavage - Blastula - Morula - Gastrula
(d) Zygote - Fertilization - Blastula - Cleavage - Morula - Gastrula

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