Class 11 Biology Final Guess 2025 and Pairing Scheme

Final Pairing Scheme Biology 2025

Q. No	Details	Req. Questions. Marks	T. Marks
Q1	MCQs. (Ch. 1-9,12,13) x 1 (Ch. 10,11,14) x 2	17	17
	Short Questions.	22/33	44
Q2	Ch/S.Q. 2/1 ,3/3, 8/2, 10/4, 11/2	8/12	16
Q3	Ch/S.Q. 1/2, 4/2, 7/4, 9/2, 14/2,	8/12	16
Q4	Ch/S.Q. 5/1, 6/1, 12/3, 13/4	6/9	12
	Long Questions.	3/5	24
Q5	1 + 14	4+4	
Q6	2 + 8	4+4	
Q7	6 + 9	4+4	
Q8	5 + 11	4+4	
Q9	4 + 12	4+4	
	Total Marks		85

Short Questions

Chapter Number1

1. Differentiate b/w population & community.
2. How does theory differ from the law?
3. What is integrated disease management?
4. Differentiate b/w chemotherapy, radiotherapy & gene therapy.
5. What is the hydroponic technique? Give its importance.
6. Write a note on vaccination.
7. Define a biome with an example.
8. Define phyletic lineage & biodiversity
9. Differentiate b/w deductive reasoning & inductive reasoning
10. Define phyletic lineage & biodiversity.
11. What is integrated disease management?
12. What is the hydroponic technique? Give its importance.
13. Differentiate b/w deductive reasoning & inductive reasoning.

Chapter Number 2

1. Differentiate b/w glycosidic and peptide bonds.
2. Define lipids.
3. Give two roles of waxes differentiated b/w saturated & unsaturated fatty acids.
4. Give the structure of lecithin.
5. Define biochemistry. Give its importance.
6. Define lipids. Give two roles of waxes.
7. Differentiate b/w glycosidic & peptide bond.
8. Differentiated b/w saturated & unsaturated fatty acid.

Chapter Number 3

1. What is the active site of an enzyme?
2. Difference between apoenzyme & holoenzyme.
3. What is a cofactor & activator of an enzyme?
4. How does an enzyme accelerate a metabolic reaction?
5. Write four characteristics of enzymes.
6. What is the induced fit model? Who proposed this model?
7. How does high temperature affect enzyme activities?
8. What is the role of pH in enzyme action?
9. Give optimum pH values for any two enzyme actions?
10. What are enzyme inhibitors? Give two examples.
11. Differentiate b/w reversible & irreversible enzyme inhibitors.
12. Differentiate b/w competitive & noncompetitive enzyme inhibitors?
13. What is a cofactor & activator of an enzyme?
14. Differentiate b/w apoenzyme & holoenzyme.

Chapter Number 4

1. Write down the salient features of cell theory.
2. Differentiate between phagocytosis & pinocytosis.
3. Give the chemical composition of the primary & secondary cell wall.
4. Give three functions of smooth endoplasmic reticulum.
5. Define storage diseases with two examples.
6. What is the location of centrioles in the cell, and what is their role?
7. Differentiate b/w chromoplasts & leucoplasts.
8. Differentiate b/w cisternae & cristae.
9. What are peroxisome, polysome & ribosome?
10. What is the location of centrioles in the cell & what is their role?

Chapter Number 5

1. Define species & virology with examples.
2. Give a biological classification of corn.
3. What is binomial nomenclature?
4. What are two rules of nomenclature?
5. What are prions?
6. Differentiate b/w lytic phage & lysogenic phage.
7. Write down symptoms & prevention of hepatitis.
8. What is binomial nomenclature?
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12. What are two rules of nomenclature?

Chapter Number 6

1. How does respiration occur in bacteria?
2. What are plasmids?
3. Differentiate between eubacteria and archaeobacteria.
4. Write four postulates of germ theory.
5. What are mesosomes? Describe their function.
6. Write misuse of antibiotics.
7. What are trichomes?
8. Give the structure & function of Heterocyst?
9. What are super blue-green algae? Give its importance.

Chapter Number 7

1. What are choanoflagellates?
2. What are tritonymphs? Give their importance.
3. Write two characteristics of ciliates.
4. Differentiate b/w micronucleus & macronucleus.
5. Differentiate b/w foraminifera & actinopods.
6. What are apicomplexans? Give one example.
7. How do algae differ from plants?

8. What are red tides?
9. Give the structure & function of diatoms. Also, write three characteristics of diatoms.
10. What are kelps?
11. Name the parts of the thallus of a kelp.
12. Green algae are considered the ancestral organism of green land plants, why?
13. What is chlorella? Give its significance.
14. What is the importance of algae?

Chapter Number 8

1. What are dikaryotic hyphae? Give example
2. What are lichens? Give their ecological importance.
3. Differentiate b/w karyogamy & plasmogamy.
4. Differentiate b/w rusts & smuts.
5. What is budding & para sexuality?
6. What are toad stools? Give an example.
7. What is histoplasmosis? Give its causes.
8. Give the scientific name of the yeast used in genetic research.
9. Define hyphae. Give its two types.
10. What is mycorrhiza? Give its importance.

Chapter Number 9

1. Differentiate b/w monocot stem & dicot stem.
2. Differentiate b/w microphylls & megaphylls.
3. Why bryophytes plants are called amphibious plants?
4. How do spores of mosses differ from spores of liverworts?
5. What is alternation of generation? Give its significance.
6. Why are sphenopsida called arthrophytes?
7. Differentiate b/w microphylls & megaphylls.
8. Define double fertilization in angiosperms. Give its importance.

Chapter Number 10

1. Write the importance of sponges.
2. Define polymorphism with an example.
3. Write down the importance of corals.
4. Differentiate between infestation & disinfestations.
5. Write the names and uses of any two useful insects.
6. Give three characteristics of chordates.
7. Give the role of the swim bladder in bony fishes.
8. Give two commercial uses of sharks
9. Define regeneration & madreporite.
10. Write the names and harms of any two harmful mollusks.
11. Differentiate b/w polyps & medusae.
12. Differentiate b/w coelomates & acoelomates.
13. Differentiate b/w diploblastic & triploblastic animals.
14. Define nymph & metamorphosis.

Chapter Number 11

1. Define bioenergetics
2. Differentiate between photosynthesis & respiration.
3. Define photosynthesis with the equation.
4. What is the compensation point? Where does it occur?
5. Write down the molecular formula for chlorophyll "a" and b".
6. What are the necessary pigments in plants? Give their importance.
7. Differentiate b/w absorption & action spectrum.
8. Differentiate b/w photosystem and Photosystem
9. What is the Z-scheme? Why is it called so?
10. What is fermentation? Explain its types.

Chapter Number 12

1. Distinguish b/w nutrients & nutrition.
2. Write components & functions of saliva.
3. Name various types of salivary glands in man.
4. Differentiate b/w peristalsis & anti-peristalsis.
5. How are hunger pangs caused?
6. What is heartburn or pyrosis
7. Name the types of cells present in gastric glands.
8. What prevents the wall of the stomach from being digested?
9. What is the role of the liver in the digestion of food?

Chapter Number 13

1. Differentiate b/w organismic and cellular respiration?
2. How is air a better respiratory medium than water?
3. What is photorespiration? Name the organelles involved in it.
4. What is Rubisco? Write its importance.
5. What is the respiratory surface? Give three properties.
6. Differentiate between cutaneous and pulmonary respiration.
7. What is counter-current gaseous exchange in parabronchi?
8. Differentiate between the diaphragm and the pleura.
9. Name some respiratory disorders and explain one.
10. What is emphysema? Write its symptoms.
11. What is the diving reflex?
12. What changes occur in an animal during the diving reflex?

Chapter Number 14

1. Define cohesion-tension theory.
2. What do you know about bleeding in plants?
3. Define guttation.
4. Differentiate between plasmolysis and deplasmolysis.
5. Differentiate b/w open and closed blood circulatory system.
6. Define active and passive immunity.
7. Differentiate b/w water potential & solute potential.

8. Differentiate between the apoplast and symplast pathways.
9. Differentiate b/w apoplast & symplast pathway.
10. Differentiate b/w single & double circuit heart.
11. What are blue babies?
12. What is a brain hemorrhage? Give two preventive measures.

Long questions.

(Chapter 1 + 14)

1. Explain various functions of blood.
2. Explain the role of biology in the protection and conservation of the environment.
3. Describe the role of drug treatment and gene therapy in disease control
4. Define cloning, discuss types, and the commercial importance technique.
5. How the study of biology helped making to improve the production of food.
6. Define immunity. Give its types
7. Explain the pressure flow theory for the translocation of food in plants.
8. Write a note on cohesion-tension theory.

(Chapter 2+8)

1. Give adaptations of fungi on land.
2. Describe acylglycerol in detail.
3. Explain different types of polysaccharides
4. Compare DNA and RNA. Explain different types of RNA.
5. Describe the primary and secondary structure of protein
6. Explain the Watson and Crick model of DNA
7. Describe the importance of water in life
8. Discuss different methods of asexual reproduction in fungi.
9. Describe land adaptations of bryophytes.
10. Write four economic gains and losses due to fungi

(Chapter 6 + 9)

1. Describe different classes of bacteria based on flagella.
2. Give nutrition to bacteria.
3. Discuss growth and reproduction in bacteria.
4. Explain characteristics of cyanobacteria.
5. Describe the gametophyte stage in the life history of Adiantum.
6. Discuss the life cycle of the Maiden hair fern.
7. Write the economic importance of the family Poaceae.
8. Describe the least four steps in the evolution of the seed habit.

(Chapter 5 + 11)

1. How is HIV transmitted? Give a sketch of the infection cycle of HIV.
2. Define hepatitis. Describes its symptoms, causes, and types.
3. Describe the life cycle of a bacteriophage.
4. Draw the sketch and explain the Krebs cycle.
5. Explain the process of digestion in a hydra.
6. Draw and describe the Calvin cycle in photosynthesis.
7. Compare photosynthesis with respiration in plants.

(Chapter 4 + 12)

1. What are plastids? Explain the structure and function of the chloroplast.
2. Write a note on the Endoplasmic reticulum.
3. Differentiate b/w prokaryotic & eukaryotic cells.
4. Describe the structure and function of mitochondria.
5. Describe the digestion in the oral cavity of man.
6. Write a note on a) Anorexia nervosa b) Bulimia nervosa c) Obesity
7. Describe the absorption of digested food in the small intestine.