



50 NEET Physics Most Expected Questions for 2026

Botany: High-Yield Questions

1. Plant Kingdom: Differentiate between the life cycles of Spirogyra, Cycas, and Selaginella. Which one exhibits heterospory?
2. Morphology: Identify the type of phyllotaxy in Alstonia and the placentation type in Dianthus.
3. Anatomy: Explain the functional difference between heartwood and sapwood. Why is heartwood resistant to microbial attacks?
4. Cell Cycle: In which stage of Meiosis I does the process of recombination occur, and which enzyme facilitates it?
5. Photosynthesis: Compare the primary CO₂ acceptor and the first stable product in C₃ vs. C₄ plants.
6. Respiration: Calculate the respiratory quotient (RQ) for tripalmitin.
7. Plant Growth: Which hormone is responsible for "bolting" in cabbage, and which one acts as an antagonist to GAs?
8. Sexual Reproduction in Flowering Plants: Describe the formation of a 7-celled, 8-nucleate embryo sac.
9. Genetics: If a color-blind man marries a woman who is homozygous for normal vision, what is the probability of their son being color-blind?
10. Molecular Basis: Explain the significance of the "Degenerate" and "Universal" nature of the genetic code.



11. DNA Replication: Identify the role of DNA Ligase and Helicase in the replication fork.
12. Ecosystem: Distinguish between a Gaseous cycle and a Sedimentary cycle with examples.
13. Biodiversity: What are the three levels of biodiversity defined by Edward Wilson?
14. Environmental Issues: Explain the phenomenon of Biomagnification using the example of DDT in an aquatic food chain.
15. Microbes: Name the microbes used for the production of Statins and Cyclosporin-A.
16. Biotechnology Principles: Describe the role of the 'selectable marker' and 'ori' in a pBR322 vector.
17. Biotech Applications: How does the Bt toxin kill the corn borer without harming the bacteria?
18. Organisms & Populations: Define Commensalism and Amensalism with one biological example each.
19. Mineral Nutrition: Identify the elements responsible for the photolysis of water during photosynthesis.
20. Biological Classification: List the key differences between Archaeobacteria and Eubacteria regarding cell wall composition.
21. Plant Kingdom: Why are Bryophytes called the "Amphibians of the Plant Kingdom"?
22. Anatomy: Explain the arrangement of vascular bundles in a Dicot stem vs. a Monocot stem.
23. Cell Structure: Contrast the structure and function of Rough ER and Smooth ER.
24. Photosynthesis: What is the significance of the "Z-scheme" in Light Reactions?
25. Genetics: Explain the Law of Independent Assortment using a dihybrid cross.



Zoology: High-Yield Questions

26. Animal Kingdom: Identify the unique features of Phylum Ctenophora and Echinodermata (Water vascular system).
27. Structural Organization: Describe the location and function of Ciliated epithelium in the human body.
28. Biomolecules: Explain the "Lock and Key" hypothesis of enzyme action and the effect of competitive inhibitors like Malonate.
29. Digestion: Name the cells that secrete Intrinsic Factor and explain its role in Vitamin B12 absorption.
30. Breathing: Define Vital Capacity and Total Lung Capacity. How does $p\text{CO}_2$ affect the oxygen dissociation curve?
31. Circulation: Trace the conduction of an action potential through the Heart (SA Node to Purkinje fibers).
32. Excretion: Describe the mechanism of the Counter-Current Multiplier in the Loop of Henle.
33. Locomotion: Explain the "Sliding Filament Theory" of muscle contraction.
34. Neural Control: Differentiate between the functions of the Hypothalamus and the Cerebellum.
35. Chemical Coordination: Explain the mechanism of action of Lipid-soluble hormones vs. Water-soluble hormones.
36. Human Reproduction: Describe the hormonal changes (LH surge) that lead to ovulation.





37. Reproductive Health: List the non-medicated, copper-releasing, and hormone-releasing IUDs.
38. Evolution: Distinguish between Homologous and Analogous organs with examples of Divergent and Convergent evolution.
39. Human Health: Explain the life cycle of Plasmodium (Malarial parasite) in humans and mosquitoes.
40. Animal Husbandry: What is "Inbreeding Depression," and how can it be overcome?
41. Biotech: Describe the steps involved in PCR (Denaturation, Annealing, Extension).
42. Evolution: Explain the Hardy-Weinberg Principle and the factors that affect genetic equilibrium.
43. Immunity: Compare Active Immunity and Passive Immunity with examples like Colostrum.
44. Human Reproduction: Identify the layers of the blastocyst and their roles in implantation.
45. Excretion: What is the role of the Juxtaglomerular Apparatus (JGA) in blood pressure regulation?
46. Neural Control: Explain the process of depolarization and repolarization during nerve impulse conduction.
47. Animal Kingdom: Match the following: Ascaris, Ancylostoma, Pinctada, and Aplysia with their common names.
48. Biomolecules: Describe the secondary structure of proteins, specifically the Alpha-helix and Beta-pleated sheets.
49. Cockroach (Structural Org): Describe the visual units (Ommatidia) and the type of vision in Periplaneta americana.
50. Health & Disease: Explain the difference between Benign and Malignant tumors.



