Cerebrum Biology Academy

NEET 2026 Biology Mock Test

FREE Full-Length Practice Paper

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Instructions:

- Time Duration: 50 minutes
- Total Questions: 50 MCQs (Biology section from full NEET)
- Marking Scheme: +4 for correct answer, -1 for wrong answer, 0 for unanswered
- Maximum Score: 200 marks
- Question distribution: Botany (10), Zoology (10), Cell/Molecular Biology (10), Genetics/Evolution (10), Ecology (10)
- Read each question carefully before answering
- Use the answer key to check your responses
- Time yourself to simulate actual exam conditions
- Target: Score more than 140 for good performance

Q1. Which of the following is NOT a characteristic of meristematic tissue?

A) Thin-walled cells
B) Abundant plasmodesmata
C) Highly differentiated
D) Capable of cell division

Q2. The vascular tissue that transports organic nutrients in plants is:

A) Xylem
B) Phloem
C) Collenchyma
D) Sclerenchyma

Q3. Double fertilization in angiosperms produces:

A) One zygote only
B) Two zygotes
C) One zygote and endosperm
D) Multiple zygotes

Q4. Which hormone is responsible for fruit ripening?

A) Gibberellin
B) Ethylene
C) Auxin
D) Cytokinin

Q5. The type of vernation found in Polyalthia is:

A) Imbricate
B) Supervolute
C) Valvate
D) Conduplicate

Q6. Root pressure is important for:

A) Photosynthesis
B) Transport of water in xylem
C) Storage of food
D) Osmotic regulation

Q7. The movement of solutes in phloem against concentration gradient is called:

A) Diffusion
B) Osmosis
C) Active transport
D) Facilitated diffusion

Q8. Photosystem I is involved in:

A) Water splitting
B) NADPH formation
C) Oxygen evolution
D) Both A and C

Q9. The first stable product of dark reaction (Calvin cycle) is:

A) Glucose
B) 3-PGA
C) RuBP
D) G3P

Q10. Apical dominance is caused by:

A) High auxin concentration at apex
B) High gibberellin at apex
C) Low cytokinin at apex
D) Both A and C

Q11. The number of chambers in human heart is:

A) 2
B) 3
C) 4
D) 5

Q12. Which valve prevents backflow of blood into the right atrium?

A) Mitral valve
B) Tricuspid valve
C) Aortic valve
D) Pulmonary valve

Q13. The functional unit of kidney is:

A) Bowman's capsule
B) Collecting duct
C) Nephron
D) Loop of Henle

Q14. Insulin is secreted by:

A) Alpha cells of pancreas
B) Beta cells of pancreas
C) Gamma cells of pancreas
D) Acinar cells

Q15. The nerve that controls swallowing is:

A) Glossopharyngeal
B) Vagus
C) Facial
D) Trigeminal

Q16. The correct order of blood flow through heart is:

A) RA→LA→RV→LV
B) RA→RV→LA→LV
C) RA→RV→Lungs→LA→LV
D) LA→RA→LV→RV

Q17. Which blood type is universal donor?

A) AB+
B) O+
C) O-
D) B-

Q18. The hormone that increases blood glucose level is:

A) Insulin
B) Glucagon
C) Thyroxine
D) Adrenaline

Q19. The site of urine storage is:

A) Kidney
B) Ureter
C) Urethra
D) Bladder

Q20. Aqueous humor is secreted by:

A) Cornea
B) Ciliary body
C) Lens
D) Retina

Q21. The prokaryotic cell lacks:

A) Cell membrane
B) Nucleus
C) Ribosomes
D) DNA

Q22. Mitochondria is known as:

A) Protein factory
B) Power house of cell
C) Lipid factory
D) Storage organelle

Q23. The process of programmed cell death is called:

A) Necrosis
B) Autophagy
C) Apoptosis
D) Mitosis

Q24. DNA replication is:

A) Semi-conservative
B) Conservative
C) Dispersive
D) All of above

Q25. The enzyme that synthesizes RNA from DNA template is:

A) DNA polymerase
B) RNA polymerase
C) Ligase
D) Helicase

Q26. Ribosomes are made of:

A) Proteins only
B) RNA only
C) Proteins and RNA
D) Lipids and proteins

Q27. Which organelle is responsible for detoxification in cells?

A) Golgi apparatus
B) Rough ER
C) Smooth ER
D) Lysosome

Q28. The stop codon in genetic code is:

A) UAA, UAG, UGA
B) AUG
C) UAC
D) CUG

Q29. DNA is found in:

A) Nucleus only
B) Nucleus and mitochondria
C) Nucleus, mitochondria, chloroplast
D) All organelles

Q30. Telomeres are:

A) Gene sequences
B) Repetitive DNA at chromosome ends
C) Centromere regions
D) Coding regions

Q31. Mendel's law of segregation states:

A) Traits blend in offspring
B) Alleles segregate during gamete formation
C) All genes assort independently
D) Recessive traits skip generations

Q32. A cross between AaBb and aabb gives ratio:

A) 9:3:3:1
B) 1:1:1:1
C) 3:1
D) 1:1

Q33. Red-green color blindness is:

A) Autosomal dominant
B) Autosomal recessive
C) X-linked recessive
D) Y-linked

Q34. The process of gradual evolution is called:

A) Saltation
B) Microevolution
C) Macroevolution
D) Directional evolution

Q35. Natural selection was proposed by:

A) Lamarck
B) Darwin
C) Weismann
D) Hardy

Q36. Hardy-Weinberg equilibrium requires:

A) No mutations
B) No gene flow
C) Random mating
D) All of above

Q37. Genetic drift is more pronounced in:

A) Large populations
B) Small populations
C) Stable populations
D) Growing populations

Q38. Homologous structures are evidence of:

A) Convergent evolution
B) Divergent evolution
C) Parallel evolution
D) Artificial selection

Q39. Mutation rate is increased by:

A) Ultraviolet radiation
B) X-rays
C) Chemical mutagens
D) All of above

Q40. The allele frequency remains constant if:

A) Population is small
B) Mutation occurs
C) Mating is random
D) Selection pressure exists

Q41. The 10% law in ecology states:

A) 10% species are endangered
B) 10% energy transferred to next level
C) 10% population dies annually
D) 10% area is protected

Q42. Pyramid of energy is always:

A) Upright
B) Inverted
C) Linear
D) Circular

Q43. Pioneer species in primary succession include:

A) Lichens and mosses
B) Grasses
C) Shrubs
D) Trees

Q44. Nitrogen fixation is carried out by:

A) Plants
B) Bacteria (Rhizobium, Azotobacter)
C) Fungi
D) Animals

Q45. The term "biosphere reserve" was coined to:

A) Preserve species
B) Conduct research
C) Allow sustainable use
D) All of above

Q46. Eutrophication is caused by excess:

A) Carbon dioxide
B) Nitrogen and phosphorus
C) Oxygen
D) Sulfur

Q47. The organism with highest carrying capacity is:

A) Elephant
B) Tiger
C) Bacteria
D) Deer

Q48. CFCs damage ozone layer by:

A) Combining with O3
B) Breaking down O3 molecules
C) Reducing O2
D) Creating greenhouse gases

Q49. Biodiversity hotspots have:

A) High species richness
B) High endemism
C) Threatened species
D) All of above

Q50. The level of biodiversity NOT included in comprehensive conservation is:

A) Genetic
B) Species
C) Ecosystem
D) Individual organism level

ANSWER KEY

Q.	Answer	Explanation
1	C	Meristematic tissues consist of undifferentiated c...
2	B	Phloem transports sugar and organic nutrients. Thi...
3	C	Double fertilization involves fusion of one male g...
4	B	Ethylene is known as the ripening hormone in plant...
5	B	Polyalthia exhibits supervolute vernation where le...
6	B	Root pressure helps push water upward in xylem, es...
7	C	Movement against concentration gradient requires e...
8	B	PS I reduces NADP+ to NADPH. PS II is involved in ...
9	B	3-Phosphoglycerate (3-PGA) is the first stable pro...
10	D	Apical dominance results from high auxin at apex s...
11	C	Human heart has 4 chambers: 2 atria and 2 ventricl...
12	B	The tricuspid valve prevents backflow into the rig...
13	C	The nephron is the functional unit of the kidney c...
14	B	Beta cells of islets of Langerhans in pancreas sec...
15	B	The vagus nerve (10th cranial nerve) controls swal...
16	C	Blood flows: Right atrium → Right ventricle → Lung...
17	C	O- blood type has no A, B, or D antigens, making i...
18	B	Glucagon increases blood glucose by promoting glyc...
19	D	The urinary bladder stores urine until micturition...
20	B	The ciliary body secretes aqueous humor that maint...
21	B	Prokaryotes lack a membrane-bound nucleus; DNA is ...
22	B	Mitochondria produces ATP through cellular respira...
23	C	Apoptosis is controlled, programmed cell death ess...
24	A	Meselson-Stahl experiment proved DNA replication i...
25	B	RNA polymerase catalyzes transcription (synthesis ...
26	C	Ribosomes consist of ribosomal proteins and riboso...
27	C	Smooth endoplasmic reticulum detoxifies harmful su...
28	A	UAA, UAG, and UGA are stop codons signaling termin...
29	C	DNA is found in nucleus, mitochondria, and chlorop...
30	B	Telomeres are protective repetitive DNA sequences ...
31	B	Law of segregation: Alleles separate during meiosi...
32	B	Test cross (AaBb x aabb) gives 1:1:1:1 ratio.
33	C	Red-green color blindness is X-linked recessive, m...
34	B	Microevolution refers to small changes within popu...

35	B	Charles Darwin proposed theory of natural selectio...
36	D	Hardy-Weinberg law requires no mutation, no select...
37	B	Genetic drift has stronger effects in small popula...
38	B	Homologous structures (same origin, different func...
39	D	UV, X-rays, and chemical mutagens all increase mut...
40	C	Constant allele frequency requires random mating (...
41	B	The 10% law: Only ~10% of energy transfers to next...
42	A	Energy pyramid is always upright because energy fl...
43	A	Lichens and mosses are pioneer species in primary ...
44	B	Nitrogen-fixing bacteria convert N2 to ammonia for...
45	D	Biosphere reserves allow conservation, research, a...
46	B	Excess nutrients (N, P) cause algal blooms and eut...
47	C	Bacteria have highest carrying capacity due to rap...
48	B	CFCs break down ozone molecules, creating ozone ho...
49	D	Hotspots have high richness, high endemism, and th...
50	D	Comprehensive conservation includes genetic, speci...

SCORE INTERPRETATION

0-60 marks: Needs Improvement

Focus on basics. Review fundamental concepts and strengthen weak areas.

60-100 marks: Average Performance

Good foundation but needs more practice. Work on time management and accuracy.

100-140 marks: Good Performance

Solid understanding of concepts. Practice more complex questions for better preparation.

140-180 marks: Excellent Performance

Very strong preparation. Minor errors in difficult questions. Continue focused revision.

180-200 marks: AIIMS/Top College Level

Outstanding performance! You are well-prepared for competitive exams.

IMPORTANT TIPS FOR NEET SUCCESS:

- Manage time effectively - 1 minute per question average
- Read questions carefully to avoid silly mistakes
- Skip difficult questions initially, return later
- Strengthen weak topics through targeted practice
- Solve mock tests regularly to improve speed and accuracy
- Join our WhatsApp group for daily doubt clearing sessions