

NSEB 2023-24 Exam Paper - Detailed Analysis

26th November 2023 (2:30 - 4:30 pm)

National Standard Examinations - Biology (NSEB) is a nationwide examination organized by IAPT (Indian Association of Physics Teachers) in coordination with Association of Teachers in Biological Sciences (ATBS). IAPT has been conducting NSEB at CBSE class XII level. The NSEs are the First stage and THE ONLY SCREENING TESTS in India leading towards International Olympiads in the respective science subjects.

NSEB will contain a maximum of 60 Questions having Maximum Marks of 216, which is bifurcated in two parts in following manner:

In part A1 (Q. No.1 to 48) each question has four alternatives, out of which only one is correct. Each correct answer carries 3 marks whereas 1 mark will be deducted for each wrong answer.

In part A2 (Q. No. 49 to 60) each question has four alternatives out of which any number of alternative (s) (1, 2, 3, or 4) may be correct. You have to choose all the correct alternative(s) and fill the appropriate bubble(s). Students get 6 marks if all the correct alternatives are marked. No negative marks in this part.

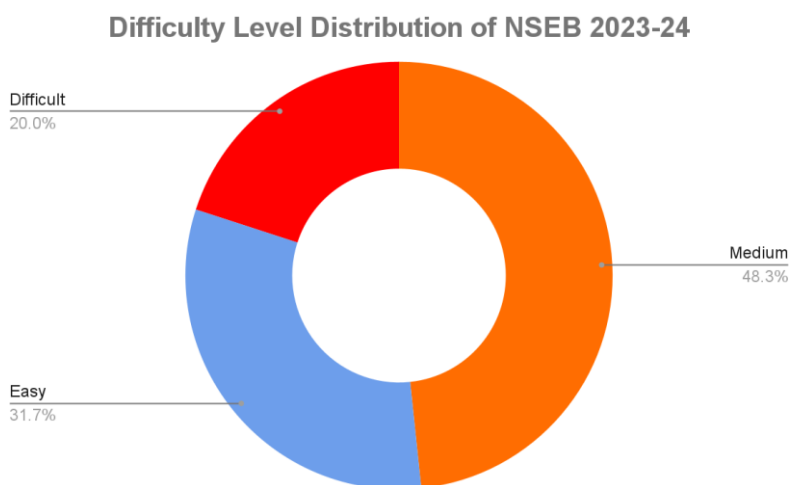
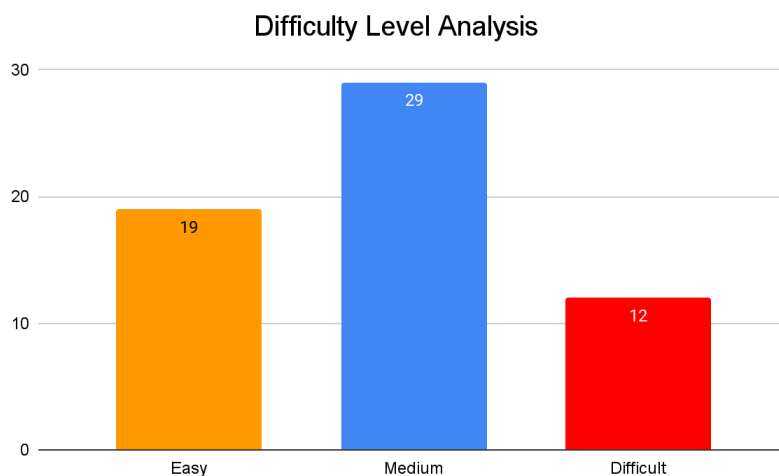
NSEB 2023-24 was conducted on Sunday, November 26, 2023 from 2:30 PM to 4:30 PM for eligible students

As per our expert faculty analysis, below are the **Key Take-Aways from NSEB 2023-24:**

Analysis of Difficulty Level

It was rated as Moderate to Difficult on the difficulty level. It consists mostly of Easy and Moderate questions. Some of the questions were of a higher Difficulty level..

Easy		Medium		Difficult		Grand Total	
No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
19	63	29	102	12	51	60	216



Chapter/Topic Level Level Distribution

Following is the question distribution table as per Class, Chapter, Topic & Difficulty:

Question No.	Chapter	Topic Name	Difficulty Level	Marks	Class	Section
1	Digestion and Absorption	Digestive System	Medium	3	XI	A1
2	Transport in Plants	Plant-water Relations	Easy	3	XI	A1
3	Transport in Plants	Means of Transport	Medium	3	XI	A1
4	Digestion and Absorption	Absorption of digested products	Medium	3	XI	A1
5	Respiration in Plants	Aerobic Respiration	Medium	3	XI	A1

6	Animal Kingdom (General Accounts & Non-Chordates)	Classification of Animals	Difficult	3	XI	A1
7	Biomolecules	Enzymes	Difficult	3	XI	A1
8	Organisms and Populations	Organism and its environment	Medium	3	XII	A1
9	Organisms and Populations	Organism and its environment	Difficult	3	XII	A1
10	Breathing and Exchange of Gases	Regulation of Respiration	Medium	3	XI	A1
11	Molecular Basis of Inheritance	Regulation of Gene Expression	Medium	3	XI	A1
12	Neural Control and Coordination	Neuron as Structural and Functional Unit of Neural System	Medium	3	XI	A1
13	Cell : The unit of Life	Eukaryotic cells	Easy	3	XI	A1
14	Molecular Basis of Inheritance	Translation	Easy	3	XI	A1
15	Locomotion and Movement	Mechanism of Muscle Contraction	Medium	3	XI	A1
16	Biotechnology - Principles and Processes	Tools of Recombinant DNA Technology	Medium	3	XII	A1
17	Animal Kingdom (General Accounts & Non-Chordates)	Basis of Classification	Easy	3	XI	A1
18	Evolution	Mechanism of Evolution	Medium	3	XII	A1
19	Chemical Coordination and Integration	Human Endocrine System	Easy	3	XI	A1
20	Photosynthesis in Higher Plants	The C4 Pathway (Hatch and Slack pathway)	Medium	3	XI	A1
21	Neural Control and Coordination	Sensory Reception and Processing	Difficult	3	XI	A1
22	Evolution	Speciation and Isolation	Medium	3	XI	A1
23	Cell Cycle and Cell Division	Mitosis	Easy	3	XI	A1
24	Organisms and Populations	Organism and its environment	Difficult	3	XII	A1

25	Breathing and Exchange of Gases	Transport of gases	Easy	3	XI	A1
26	Principles of Inheritance and Variation	Two Genes Interaction (w.r.t Post-Mendelism)	Easy	3	XII	A1
27	Respiration in Plants	Aerobic Respiration	Medium	3	XI	A1
28	Biomolecules	Amino Acids	Difficult	3	XI	A1
29	Photosynthesis in Higher Plants	Historical account – Early experiments	Medium	3	XI	A1
30	Respiration in Plants	Aerobic Respiration	Easy	3	XI	A1
31	Cell Cycle and Cell Division	Interphase	Easy	3	XI	A1
32	Principles of Inheritance and Variation	2 gene interaction	Medium	3	XII	A1
33	Principles of Inheritance and Variation	Hemophilia	Easy	3	XII	A1
34	Biodiversity Conservation and	The importance of species diversity to ecosystem	Medium	3	XII	A1
35	Molecular Basis of Inheritance	Human Genome Project	Medium	3	XII	A1
36	Cell Cycle and Cell Division	Mitosis	Easy	3	XI	A1
37	Human Health and Disease	Lymphoid Organs	Easy	3	XII	A1
38	Respiration in Plants	Krebs cycle	Medium	3	XI	A1
39	Anatomy of Flowering Plants	Leaf anatomy	Medium	3	XI	A1
40	Anatomy of Flowering Plants	Stem anatomy	Medium	3	XI	A1
41	Respiration in Plants	Dark reaction	Easy	3	XI	A1
42	Respiration in Plants	Fermentation	Difficult	3	XI	A1
43	Digestion and Absorption	Digestion of food	Easy	3	XI	A1
44	Animal Kingdom (General Accounts & Non-Chordates)	Classification of Animals	Easy	3	XI	A1
45	Chemical Coordination and Integration	Human Endocrine System	Medium	3	XI	A1

46	Strategies for Enhancement in Food Production	Tissue culture	Medium	3	XII	A1
47	Transport in Plants	Simple diffusion	Easy	3	XI	A1
48	Photosynthesis in Higher Plants	Light reaction	Medium	3	XI	A1
49	Biomolecules	Enzymes	Difficult	6	XI	A2
50	Cell : The unit of Life	Microbodies	Medium	6	XI	A2
51	Photosynthesis in Higher Plants	Dark reaction	Easy	6	XI	A2
52	Ecosystem	Ecological succession	Medium	6	XII	A2
53	Organisms and Populations	Population interaction	Easy	6	XII	A2
54	Molecular Basis of Inheritance	Protein translocation	Medium	6	XII	A2
55	Ecosystem	Ecology	Difficult	6	XII	A2
56	Neural Control and Coordination	Sensory Reception and Processing	Difficult	6	XI	A2
57	Biomolecules	Proteins	Medium	6	XI	A2
58	Respiration in Plants	ETS	Medium	6	XI	A2
59	Organisms and Populations	Population Interactions	Difficult	6	XII	A2
60	Organisms and Populations	Adaptations	Difficult	6	XII	A2

Class Wise Distribution Level

- Higher number of Questions were asked from Class XI compared to Class XII
- Class XI dominated the Paper in terms of Marks as well compared to Class XII

Section	XI		XII		Grand Total	
	No. of Questions	Total Marks	No. of Questions	Total Marks	No. of Questions	Total Marks

A1	36	108	12	36	48	144
A2	6	36	6	36	12	72
Grand Total	42	144	18	72	60	216

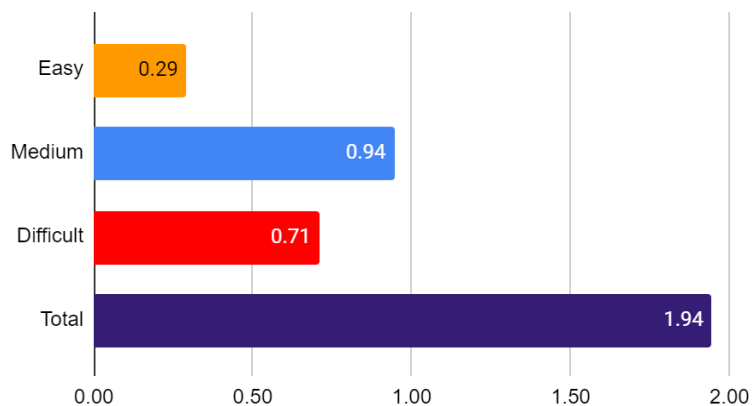
Overall Difficulty Level

In this analysis, we have rated every question on a scale of 1 to 3. The individual ratings are then averaged to calculate the overall difficulty level.

- 1: Easy
- 2: Moderate
- 3: Difficult

Difficulty Level	Overall Difficulty Level
Easy	0.29
Medium	0.94
Difficult	0.71
Total	1.94

Overall Difficulty Level of NSEB 2023-24



As evident from the question distribution, the overall difficulty of NSEB 23-24 Paper is Moderate to Difficult. In contrast to the previous year, the Paper seemed to be at a somewhat similar level.

Hence, in the evaluation conducted by our team of experts from Aakash BYJU'S, it was observed that **NSEB 2023-24** was of Moderate to Difficult level for students

