



NSEB-2016 Detailed Analysis

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Introduction

On 27th November 2016, NSEB (National Standard Examination in Biology) – 2016 was exam is conducted by the Indian Association of Physics Teachers (IAPT) at many centers all over the country. NSEB is the stepping stage for selection of aspiring and talented students in the Astronomy Olympiad Program. The student can move forward to other stages only after clearing this stage.

Eligibility: Only Indian citizens with date of birth between 1 July 1997 and 30 June 2002, both days inclusive and studying in Class XII or lower as of November 30,2017, can apply and appear for NSEP 2016. The student has to himself re-assure his eligibility. At any stage if the student is found to be not eligible for the exam, he/she may be disqualified from the program.

Syllabus: The syllabus for National Standard Examination in Biology (NSEB) is almost similar as the curriculum of senior secondary level (Class XI and Class XII) of CBSE. However, only basic guideline for the course is mentioned. No detailed syllabus is given for NSEB. There is greater emphasis on Botany and Zoology.

Question Paper: The medium of test was English, only and It comprised of 80 objective type questions, each with only one of the four options correct with 3 marks each and -1 negative marking for incorrect answer.

Qualifying for the Second Stage: The basic objective of conducting this test is not focusing on merit but to involve as many students from the country to participate in the exam and try to show and expose their talent. Hence the selection to the stage II examinations i.e., Indian National Olympiad Examinations (INOs) is based on the following scheme.

Cutoff: To be eligible to the next level, i.e., the second stage, it is necessary that a student score at-least a minimum Admissible Score (MAS) which is 40 % of the maximum score.

Proportional Representation Clause: The maximum number of students that can get to Stage II (INO) in each subject is around 300. These many students are not selected only on the merit basis but also on proportionate basis. This proportion is decided on the base of the number of candidates who appeared for NSE in the previous year from that center in each State or Union Territory (UT) . In case there is a tie at the last position, than all the students competing for the last position will be eligible to move to stage II. However it's necessary that the selected students fulfill the eligibility clause laid out above. The total number to be selected from centers in each State for each subject will be displayed on the IAPT and HBCSE website.

Minimum Representation Clause: Notwithstanding the proportional representation clause, the number of students selected for INO from each State and UT must be at least one, provided that the eligibility clause is satisfied.

Merit Clause: As stated above, approximately 300 students are to be selected for second stage. If this does not happen according to MAS, then after selection as per merit, the shortfall from 300 students will be selected based purely on merit without further consideration to proportional representation and minimum representation clauses. In the event of a tie at the last position in the list all students with the same marks at this position will qualify to appear for the Stage II examination.

There will be no other criterion or provision for selection to the Indian National Olympiad Examination (INQs) . All students who qualify to appear for the INAO get a certificate of merit from IAPT.

Overall Marks Distribution

The paper pattern was same as last year. It comprised of single and Multiple-choice correct objective type questions. The paper had 80 questions each worth 3 marks (negative marking of 1 marks) . All questions were objective type with single correct option.

Subject	Class 11		Class 12		Total	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Biology	39	117	41	123	80	240

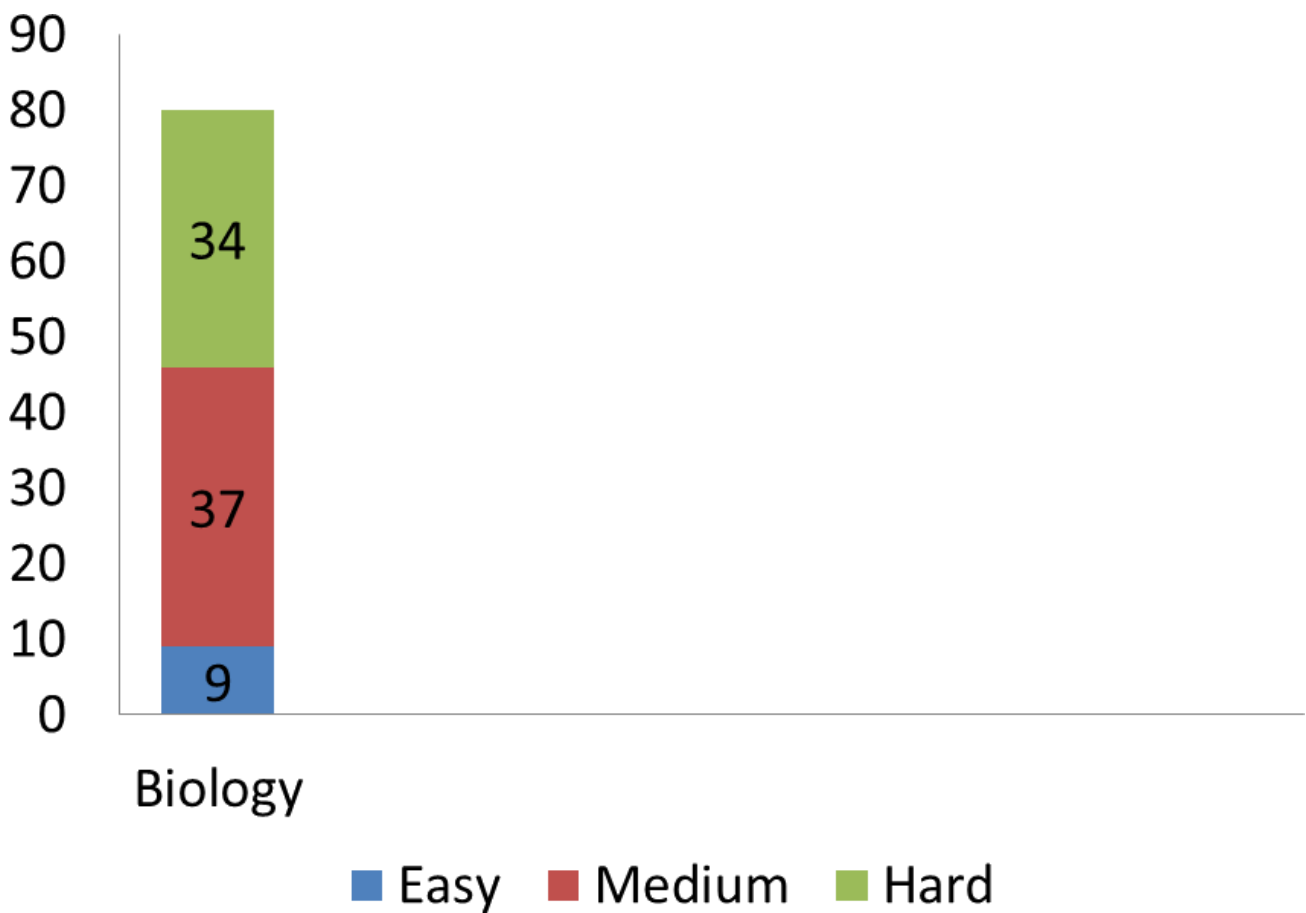
*Table of Overall Marks Distribution***Overall Difficulty Level Analysis**

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

Difficulty Level	Count of Question No.	Sum of Marks
Easy	9	27
Medium	37	111
Difficult	34	102
Grand Total	80	240
Aggregate Difficulty	2.31	

Table of Overall Difficulty Level Analysis

Question Wise Difficulty Breakup:



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Topic Wise Analysis

Biology Analysis

There are all Biology subject units as following: Biology 14 units. There is around total 100 % weightage for all units while high 32.75 % weightage can be considered for Ecology and 12.50 % to 2.50 % weightage for Genetics, Structural

Organisation in Animal and other Biology units.

Unit & Topic Name	No of Questions	Total Marks	% Weightage
Biology	33	99	100.00 %
Animal Kingdom-2	2	6	2.50 %
Application Biology	6	18	7.50 %
Biology in Human Welfare	2	6	2.50 %
Biomolecules	6	18	7.50 %
Cell Biology	4	12	5.00 %
Ecology	19	57	32.75 %
Genetics	10	30	12.50 %
Human Physiology	9	27	11.25 %
Origin and Evolution	2	6	2.50 %
Plant Diversity	4	12	5.00 %
Plant Physiology I	3	9	3.75 %
Plant Physiology II	9	27	11.25 %
Reproduction in Organism	2	6	2.50 %
Structural Organisation in Animal	2	6	2.50 %
Grand Total	80	240	100.00 %

Table of Biology Units Wise Analysis

Expected Cutoff

To be eligible to get to the next level, i.e.. the second stage, it is necessary that a student scores at- least a Minimum Admissible Score (MAS) which is 40 % of the maximum score.

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