

INJSO - 2019

A Detailed Analysis by Resonance

On 02nd February 2019, INJSO (Indian National Junior Science Olympiad) - 2019 exam was conducted by the Homi Bhabha Centre for Science Education (HBCSE) at many centers all over the country. INJSO is the second stage for selection of aspiring and talented students in the Junior Science Olympiad Program. The student can move forward to attend the Orientation Cum Selection Camp (OCSC) after clearing this stage.

Eligibility: Only Indian citizens born between January 1, 2004 and December 31, 2005, (both days inclusive) and are students studying in Class X or lower as of November 30, 2018, can apply and appear for NSEJS 2018. The student must not appear any of the senior science Olympiad. 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. Student satisfying these criterion can apply and appear for INJSO 2019 after clearing NSEJS, 2018.

Syllabus: No detailed syllabus is given for INJSO. There were questions from Physics, Biology and Chemistry.

Question Paper: The medium of test was English only and it comprised of 38 question (30 objective type questions with 3 marks each and - 01 negative marking for incorrect answer and 08 subjective type of total 90 marks) correct.

Merit Clause: Approximately 35 students are to be selected for camp.

OVERALL MARKS DISTRIBUTION

The medium of test was English only and it comprised of 38 question (30 objective type questions with 3 marks each and - 01 negative marking for incorrect answer and 08 subjective type of total 90 marks) correct. Subject wise breakup is given below.

Subject	Class 9	Class 10	Class 11	Class 12	Total
	Total Marks				
Biology	3	3	42	12	60.0
Chemistry	19.5	6	9	25.5	60.0
Physics	3	24	27	6	60.0
Grand Total	25.5	33	78	43.5	180

OVERALL DIFFICULTY LEVEL ANALYSIS

In this analysis we have rated every question on a scale of 1 to 3. The ratings are done by expert faculty members of Resonance. The individual ratings are then averaged to calculate overall difficulty level.

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

Subject	Difficulty Level
Biology	1.93
Chemistry	1.48
Physics	1.83
Total	1.74



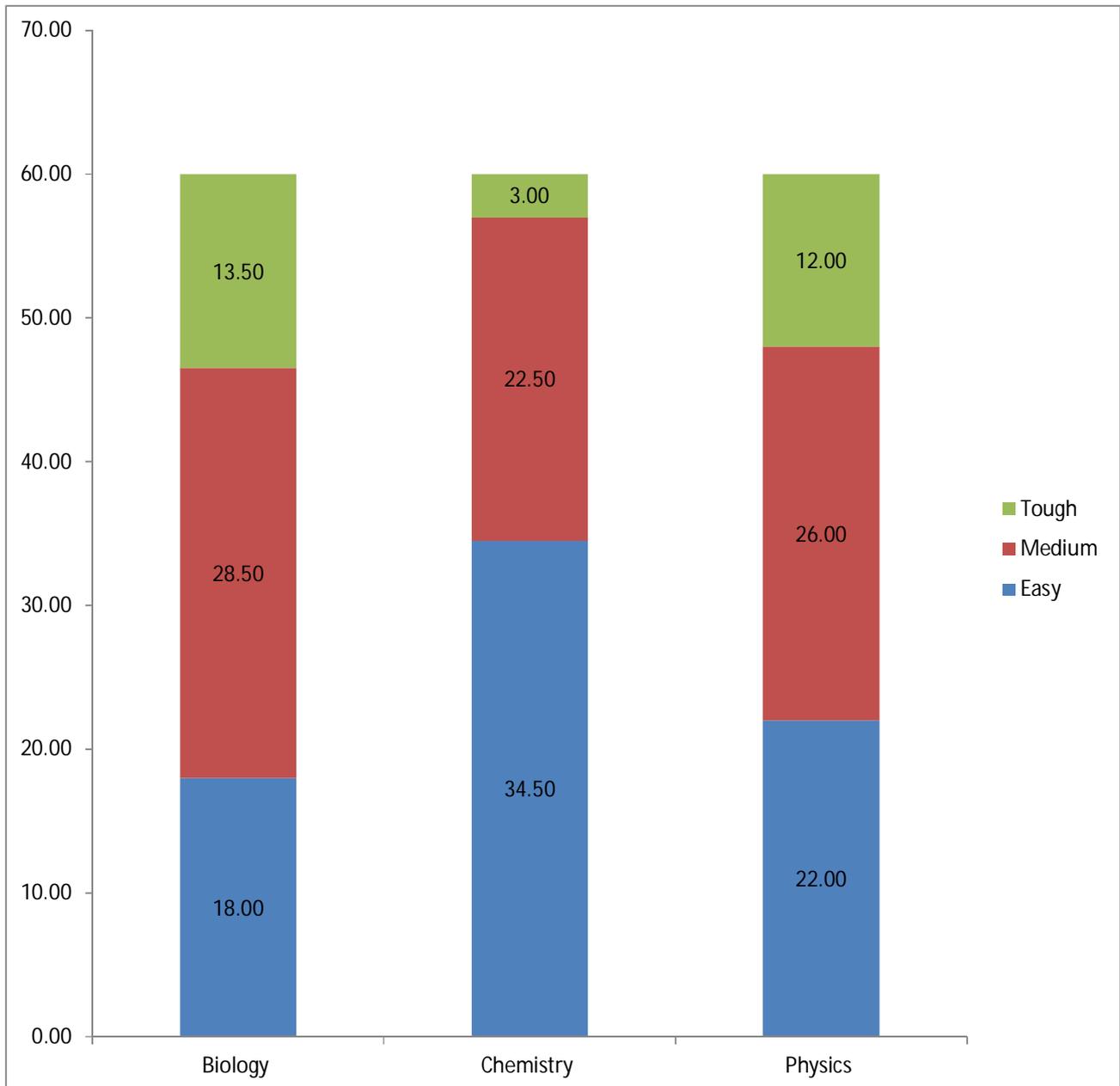
DIFFICULTY LEVEL ANALYSIS: NO OF QUESTIONS

Subject	Easy Level	Medium Level	Difficult Level	Total
	Total Marks	Total Marks	Total Marks	Total Marks
Biology	18	28.5	13.5	60
Chemistry	34.5	22.5	3	60
Physics	22	26	12	60
Grand Total	74.5	77	28.5	180

Resonance's Experts feel that all subjects were of similar difficulty level, while Chemistry was on easier side compared to Biology & Physics. While around 74.5 Marks can be considered easy overall, 77 marks are moderately difficulty and 28.5 marks are considered difficult by Resonance Team.

Overall, it is felt by Resonance Faculty Team that INJSO paper was on easier side compared to NSEJS Paper .

QUESTION WISE DIFFICULTY BREAKUP



SUBJECT WISE ANALYSIS

PHYSICS ANALYSIS

Physics		
UNIT & TOPIC NAME	TOTAL MARKS	(%) WEIGHTAGE
Physics	60	100.00%
Atoms	3	5.00%
Ruther Ford Model	3	5.00%
Electricity	6	10.00%
Cell	3	5.00%
Power	3	5.00%
Heat	3	5.00%
Specific Heat	3	5.00%
Light	21	35.00%
Colour	3	5.00%
Image Formation By Concave Mirror	12	20.00%
Image Formation By Two Plane Mirror	3	5.00%
Reflection+ Refraction	3	5.00%
Motion	3	5.00%
Average Velocity	3	5.00%
NLM	3	5.00%
Force	3	5.00%
Relative Motion	3	5.00%
River Boat Problem	3	5.00%
Sound	18	30.00%
Closed Organ Pipe	18	30.00%
Grand Total	60	100.00%

CHEMISTRY ANALYSIS

Chemistry		
UNIT & TOPIC NAME	TOTAL MARKS	(%) WEIGHTAGE
Chemistry	60	100.00%
Acid Base salts	3	5.00%
Commercially Important Compound	3	5.00%
Atoms & Molecules	6	10.00%
Mass Number	3	5.00%
Mole Concept	3	5.00%
Chemical Reaction & Equation	3	5.00%
Displacement Reaction	3	5.00%
Equivalent Concept	22.5	37.50%
Balancing Of Redox Reaction	6.5	10.83%
Percentage Composition	2	3.33%
Redox Reaction	3	5.00%
Stoichiometry	3	5.00%
Titration	5	8.33%
Types Of Redox Reaction	3	5.00%
Gaseous State	3	5.00%
Boyles Law	3	5.00%
Mole Concept	13.5	22.50%
Percentage Composition	10.5	17.50%
Stoichiometry	3	5.00%
Qualitative Analysis	3	5.00%
Flame Test	3	5.00%
Thermo Chemistry	6	10.00%
Neutralisation	6	10.00%
Grand Total	60	100.00%

BIOLOGY ANALYSIS

Biology		
UNIT & TOPIC NAME	TOTAL MARKS	(%) WEIGHTAGE
Biology	60	100.00%
Biochemistry	12	20.00%
Biochemistry	12	20.00%
Cellular Level of Organism	3	5.00%
Osmosis	3	5.00%
Concept of Growth of Plant	9	15.00%
General science	9	15.00%
Control & Coordination	9	15.00%
Endocrine System	3	5.00%
Sensory Organ	6	10.00%
Ecology	3	5.00%
Adaptation	3	5.00%
Excretion	3	5.00%
Dialysis	3	5.00%
Food Chain	9	15.00%
Ecology	9	15.00%
Nutrition	3	5.00%
Mode Of Nutrition	3	5.00%
Respiration	9	15.00%
Cellular Respiration	9	15.00%
Grand Total	60	100.00%

EXPECTED CUTOFF

Overall, it is felt by Resonance faculty team that paper was on easier side compared to last year's paper and the cut-off is expected to be higher than that of last year. The expected cut off would be 135-140.

