

JEE Mains Paper Analysis
Day 1(Shift 1): 8, Jan 2020

S. No	Section	No of Questions	Good Score	Difficulty Level*		
1	Physics	25	67			
2	Chemistry	25	79			
3	Mathematics	25	78			
Total Good Score **: 244				Easy	Medium	Difficult

* The difficulty level of a section is assessed as a function of both the toughness of questions as well as deviation from expected pattern. This analysis is based on the memory of our students. We will update as and when we have more information.

** Good score is defined on the score that will give a 99+ Percentile

Sectional Analysis

1. Physics:

IPE 1st year	IPE 2nd Year
40 % (~10 /25)	60 % (~ 15/25)

Module	No. of Qs	Notes
Mechanics I	~0	Not many questions were found from here.
Mechanics II	~6	Questions were of mixed level of difficulty covering all areas of WEP, COM, RM and Gravitation. Though they were formula based were time consuming
Thermal Physics	~ 4	Questions from this area seem to be a relief with comparatively easy to medium level
Wave & Optics	~ 4	Questions from this Module were mostly expected models, with a mix of formula based and concept based questions with medium difficulty and a few time consuming
Electromagnetism	~8	Questions from this Module had highest coverage and were felt to be of medium to high difficulty and time consuming.
Nuclear Physics	~3	Questions from this Module were on expected models, with a mix of formula based and concept based questions.

2. Chemistry:

IPE 1st year	IPE 2nd Year
52 % (~ 13 /25)	48 % (~ 12 /25)

Module	No. of Qs	Notes
Physical Chemistry I	~9	Only a few Questions in this Module were calculative, they were easy in lieu with expected models from Atomic Structure, Chemical Bonding, Thermodynamics and Acids Bases. Experimental chemistry questions were of medium difficulty for some.

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Inorganic Chemistry I	~3	Questions were on expected lines, with no surprises.
Organic Chemistry I	~1	The number of questions from this Module was lower than expected. Simple and expected
Physical Chemistry II	~ 3	The questions came from Electro chemistry as expected. The models were not surprising but calculative and a little time consuming.
Inorganic Chemistry II	~ 3	Mostly questions were from Coordination Compounds and easy
Organic Chemistry II	~6	As expected the higher focus is on 2nd Year Organic. Couple questions were time consuming, in comparison with rest of the paper. Experimental chemistry questions were of medium difficulty for some.

3. Mathematics:

IPE 1st year	IPE 2nd Year
44% (~11 /25)	56 % (~ 14/25)

Module	No. of Qs	Notes
Trigonometry & Algebra I	~ 4	All questions were on familiar models from Matrices, Functions, Trigonometry and mostly easy.
Geometry I	~3	There were two questions from Straight lines and Planes with easy to medium difficulty
Calculus I	~4	Most questions were more or less familiar and of known type with easy to medium difficulty level.
Algebra II	~5	Questions were mostly familiar from P & C, Binomial, Measures of Dispersions, Complex no and RV but with mixed difficulty level and one was time consuming.
Geometry II	~2	Questions from Conics were easy
Calculus II	~4	All questions from this Module were mostly on expected patterns, of easy to moderate level.
Functional Algebra	~3	Questions from Mathematical Reasoning, and Series of a known model and of easy level.

This analysis has been put together by our in house IIT JEE faculty and Product Team with their interactions with our students who have taken the exam on the given day.

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