

Previous Year Paper Analysis

Average Number of Questions asked in different Topics (Last 5 Papers)

IIT-JAM (Physics)

Topics	2017	2018	2019	2020	2021	Average Number of Questions
M.P.	7	8	7	8	6	7 to 8
Mechanics	10	11	8	8	9	9 to 10
Oscillations, Waves and Optics	8	9	7	9	11	8 to 9
Electricity and Magnetism	12	9	9	10	8	9 to 10
Kinetic theory, Thermodynamics	6	8	9	8	6	7 to 8
Modern Physics	8	6	9	8	9	8
Solid State Physics, Devices & Electronics	9	9	11	9	11	9 to 10
Total	60	60	60	60	60	

Previous Year Paper Analysis

IIT-JAM (Physics)

Topics	2021					Total
	MCQ (1 M)	MCQ (2 M)	MSQ (2 M)	NAT (1 M)	NAT (2 M)	
M.P.	2	3	0	1	0	6
Mechanics	3	3	1	1	1	9
Oscillations, Waves and Optics	2	3	3	1	2	11
Electricity and Magnetism	0	4	0	1	3	8
Kinetic theory, Thermodynamics	0	2	3	1	0	6
Modern Physics	0	3	2	2	2	9
Solid State Physics, Devices & Electronics	3	2	1	3	2	11
Total	10	20	10	10	10	60

Previous Year Paper Analysis

IIT-JAM (Physics)

Topics	2020					Total
	MCQ (1 M)	MCQ (2 M)	MSQ (2 M)	NAT (1 M)	NAT (2 M)	
M.P.	1	3	2	1	1	8
Mechanics	1	3	1	1	2	8
Oscillations, Waves and Optics	0	3	3	2	1	9
Electricity and Magnetism	3	2	2	1	2	10
Kinetic theory, Thermodynamics	1	3	1	1	2	8
Modern Physics	2	3	0	2	1	8
Solid State Physics, Devices & Electronics	2	3	1	2	1	9
Total	10	20	10	10	10	60

Previous Year Paper Analysis

IIT-JAM (Physics)

Topics	2019					Total
	MCQ (1 M)	MCQ (2 M)	MSQ (2 M)	NAT (1 M)	NAT (2 M)	
M.P.	3	1	1	1	1	7
Mechanics	--	4	2	--	2	8
Oscillations, Waves and Optics	--	3	1	3	--	7
Electricity and Magnetism	--	4	2	2	1	9
Kinetic theory, Thermodynamics	3	3	1	1	1	9
Modern Physics	2	2	2	1	2	9
Solid State Physics, Devices & Electronics	2	3	1	2	3	11
Total	10	20	10	10	10	60

Previous Year Paper Analysis

IIT-JAM (Physics)

Topics	2017					2018				
	MCQ (1 M)	MCQ (2 M)	MSQ (2 M)	NAT (1 M)	NAT (2 M)	MCQ (1 M)	MCQ (2 M)	MSQ (2 M)	NAT (1 M)	NAT (2 M)
M.P.	1	3	--	--	3	2	3	2	1	--
Mechanics	--	3	3	2	2	1	3	1	2	4
Oscillations, Waves and Optics	2	3	--	3	--	2	3	2	1	1
Electricity and Magnetism	2	3	4	2	1	2	4	2	1	--
Kinetic theory, Thermodynamics	--	3	1	1	1	1	4	1	2	--
Modern Physics	--	3	2	1	2	1	2	--	1	2
Electronics	5	2	--	1	1	1	1	2	2	3
Total	10	20	10	10	10	10	20	10	10	10

IIT-JAM (Physics)

EXAM SCHEME

TIME: 3 HOURS

MAXIMUM MARKS: 100

Mode of Exam: Online

There will be a total of 60 questions carrying 100 marks. The entire paper will be divided into three sections, A, B and C. All sections are compulsory. Questions in each section will be of different types as given below:

- **Section–A** contains a total of 30 Multiple Choice Questions (MCQ) involving 10 questions of one mark each and 20 questions of two marks each. Each MCQ type question has four choices out of which only one choice is the correct answer.
- **Section–B** contains a total of 10 Multiple Select Questions (MSQ) carrying two marks each. Each MSQ type question is similar to MCQ but with a difference that there may be one or more than one choice(s) that are correct out of the four given choices. The candidate gets full credit only if he/she selects all the correct answers only and no wrong answers.
- **Section–C** contains a total of 20 Numerical Answer Type (NAT) questions involving 10 questions of one mark each and 10 questions of two marks each. For these NAT type questions, the answer is a signed real number, which needs to be entered using the virtual numeric keypad on the monitor. No choices will be shown for these types of questions.
- In all sections, questions not attempted will result in zero mark. In Section-A (MCQ), wrong answer will result in **negative** marks. For each wrong answer of 1 mark questions, 1/3 mark will be deducted and similarly for each wrong answer of 2 marks questions, 2/3 mark will be deducted. In Section-B (MSQ), there are **no negative** and **no partial** marking provisions. There is **no negative** marking in Section-C (NAT) as well.
- There is provision of using **online virtual calculator** and hence, the candidates should not bring any calculator with them.