

## Previous Year Paper Analysis

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

#### GATE (Physics)

Topics	2017	2018	2019	2020	2021	Average Number of Questions
Mathematical Methods of Physics	6	7	5	8	4	6
Classical Mechanics	8	7	7	6	7	7
Electromagnetic Theory	8	8	10	8	8	8 to 9
Quantum Mechanics	6	3	10	10	9	7 to 8
Thermodynamic and Statistical Physics	5	6	5	5	4	5
Electronics	5	5	4	5	4	4 to 5
Atomic & Molecular Physics	3	8	2	4	8	5
Condensed Matter Physics	6	6	7	4	6	5 to 6
Nuclear and Particle Physics	8	5	5	5	5	5 to 6
<b>Total no. of questions</b>	<b>55</b>	<b>55</b>	<b>55</b>	<b>55</b>	<b>55</b>	

## Previous Year Paper Analysis

### GATE (Physics)

Topics	2021						Total
	MCQ 1 M	MSQ 1 M	NAT 1 M	MCQ 2 M	MSQ 2 M	NAT 2 M	
Mathematical Methods of Physics	0	1	0	0	2	1	4
Classical Mechanics	0	0	3	1	3	0	7
Electromagnetic Theory	2	2	0	3	0	1	8
Quantum Mechanics	1	0	1	6	0	1	9
Thermodynamic and Statistical Physics	0	1	1	2	0	0	4
Electronics	1	0	1	2	0	0	4
Atomic & Molecular Physics	0	2	3	1	0	2	8
Condensed Matter Physics	3	1	0	1	0	1	6
Nuclear and Particle Physics	2	0	0	0	0	3	5
<b>Total</b>	<b>9</b>	<b>7</b>	<b>9</b>	<b>16</b>	<b>5</b>	<b>9</b>	<b>55</b>
<b>General Aptitude</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>10</b>

## Previous Year Paper Analysis

### GATE (Physics)

Topics	2019					2020				
	MCQ 1 M	NAT 1 M	MCQ 2 M	NAT 2 M	Total	MCQ 1 M	NAT 1 M	MCQ 2 M	NAT 2 M	Total
Mathematical Methods of Physics	3	--	1	1	5	2	1	3	2	8
Classical Mechanics	1	1	2	3	7	2	2	1	1	6
Electromagnetic Theory	2	2	4	2	10	2	2	2	2	8
Quantum Mechanics	2	2	4	2	10	2	1	2	5	10
Thermodynamic and Statistical Physics	2	1	--	2	5	2	0	1	2	5
Electronics	1	--	3	--	4	2	0	2	1	5
Atomic & Molecular Physics	--	--	1	1	2	2	1	0	1	4
Condensed Matter Physics	2	3	1	1	7	0	1	2	1	4
Nuclear and Particle Physics	3	--	1	1	5	2	1	1	1	5
<b>Total</b>	<b>18</b>	<b>7</b>	<b>12</b>	<b>18</b>	<b>55</b>	<b>16</b>	<b>9</b>	<b>14</b>	<b>16</b>	<b>55</b>
<b>General Aptitude</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>10</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>10</b>

## Previous Year Paper Analysis

### GATE (Physics)

Topics	2017					2018				
	MCQ 1 M	NAT 1 M	MCQ 2 M	NAT 2 M	Total	MCQ 1 M	NAT 1 M	MCQ 2 M	NAT 2 M	Total
Mathematical Methods of Physics	1	1	1	4	6	3	1	1	2	7
Classical Mechanics	2	1	1	4	8	1	1	3	2	7
Electromagnetic Theory	1	3	1	3	8	1	2	4	1	8
Quantum Mechanics	4	--	1	1	6	1	--	--	2	3
Thermodynamic and Statistical Physics	1	--	2	2	5	--	--	1	5	6
Electronics	1	1	1	2	5	2	1	--	2	5
Atomic & Molecular Physics	1	--	2	--	3	5	--	1	2	8
Condensed Matter Physics	2	1	1	2	6	3	1	2	--	6
Nuclear and Particle Physics	4	1	2	1	8	2	1	--	2	5
<b>Total</b>	<b>18</b>	<b>7</b>	<b>12</b>	<b>18</b>	<b>55</b>	<b>16</b>	<b>9</b>	<b>17</b>	<b>13</b>	<b>55</b>

## **GATE (PHYSICS)**

### **EXAM SCHEME**

**TIME: 3 HOURS**

**MAXIMUM MARKS: 100**

**Mode of Exam: Online**

There will be a total of 65 questions carrying 100 marks.

GATE paper would contain questions of THREE different types

**(i) Multiple Choice Questions (MCQ),**

MCQ carrying 1 or 2 marks each, in all the papers and sections. These questions are objective in nature, and each will have choice of four answers, out of which ONLY ONE choice is correct.

**(ii) Multiple Select Questions (MSQ)**

MSQ carrying 1 or 2 marks each in all the papers and sections. These questions are objective in nature, and each will have choice of four answers, out of which ONE or MORE than ONE choice(s) are correct.

**(iii) Numerical Answer Type (NAT) questions.**

Questions carrying 1 or 2 marks each in most of the papers and sections.

**General Aptitude Section**

The paper will consist of a mandatory General Aptitude (GA) section which will have 10 questions. 5 of the questions will be of 1 mark and the remaining 5 will be of 2 marks. Therefore, the total marks for this section will be 15 marks.

**Marking Scheme**

1 Mark MCQs – 1/3 mark will be deducted for every wrong answer.

2 Mark MCQs – 2/3 mark will be deducted for every wrong response.

Zero marks will be awarded for unattempted questions

No negative marking will be done for Multiple Select Questions (MSQ) and Numerical Answer Type (NAT) questions.

In all the papers, there will be a total of 65 questions carrying 100 marks, out of which 10 questions carrying a total of 15 marks will be on General Aptitude (GA) and 55 questions carrying a total of 85 marks will be on physics syllabus.