

# Punjab Class 11 Physics Question Paper Structure PDF

## CLASS-XI PHYSICS

**Time: 3 Hrs**

**Theory: 70 Marks**  
**Practical: 25 Marks**  
**I.N.A.: 05 Marks**  
**Total: 100 Marks**

### STRUCTURE OF QUESTION PAPER (THEORY)

1. There will be one theory paper comprising of 16 questions.
2. Question No 1 will be carrying 28 objective type questions of 1 mark each. In objective type questions there will be 23 multiple choice questions and 5 questions will be of true/false statement. All these 28 objective type questions will be knowledge based and understanding based not application based.
3. Question number 2 to 8 (Total 7 questions) will be carrying 2 marks each. There will be three questions of internal choice from unit-I, unit-II and unit-IV. Each one will have one theory type question and one numerical type question in choice.
4. Question number 9 to 14 (Total 6 questions) will be carrying 3 marks each. There will be three questions of internal choice from unit-III, unit-VI and unit-VIII. Each one will have one theory type question and one numerical type in choice.
5. Question number 15 and 16 will be carrying 5 marks each and there will be internal choice of each of all these questions.
6. Distribution of marks over different dimensions of the paper will be as follows.

LEARNING OUTCOMES	MARKS	PERCENTAGE OF MARKS
KNOWLEDGE	26	36%
UNDERSTANDING	30	44%
APPLICATION	14	20%
<b>Total</b>	<b>70</b>	<b>100%</b>

7. In the category of one mark question there will be objective type question such as multiple choice and true/false.

8. Use of un-programmable calculator is allowed. The log tables can be used.
9. Total weightage of numerical will be 20% i.e approximate 15 marks. There will be 3 numericals of 2 marks each and 3 numerical of 3 marks each. These numericals will cover application based part of learning outcomes.

#### **UNIT WISE DISTRIBUTION OF MARKS**

<b>Unit No.</b>	<b>Title</b>	<b>Marks</b>
UNIT-I	Physical world and Measurement	05
UNIT-II	Kinematics	10
UNIT-III	Laws of Motion	6
UNIT-IV	Work, Power and Energy	07
UNIT-V	Motion of System of Particles and Rigid Body	06
UNIT-VI	Gravitation	06
UNIT-VII	Properties of Bulk Matter	11
UNIT-VIII	Thermodynamics	07
UNIT-IX	Behaviour of Perfect Gases and Kinetic Theory of gases	04
UNIT-X	Oscillations and Waves	08
<b>Total Marks</b>		<b>70</b>

### SCHEMATIC DISTRIBUTION OF MARKS

UNIT	Title	1 Mark Question	2 Marks Question	3 Marks Question	5 Marks Question	Total Marks
1	Physical world and Measurement	03	01 or N	-	-	05
2	Kinematics	03	01 or N	-	01	10
3	Laws of Motion	03	-	01 or N	-	06
4	Work, Power and Energy	02	01 or N	01	-	07
5	Motion of System of Particles and Rigid Body	03	-	01	-	06
6	Gravitation	03	-	01 or N	-	06
7	Properties of Bulk Matter	04	01	-	01	11
8	Thermodynamics	02	01	01 or N	-	07
9	Behaviour of Perfect Gases and Kinetic Theory of gases	02	01	-	-	04
10	Oscillations and Waves	03	01	01	-	08
<b>Total Questions</b>		<b>1 (28 Sub-parts)</b>	<b>7</b>	<b>6</b>	<b>2</b>	<b>16</b>
<b>Total Marks</b>		<b>28</b>	<b>14</b>	<b>18</b>	<b>10</b>	<b>70</b>

### INSTRUCTION FOR PAPER SETTER

**Note:** There will be one theory paper comprising of total 16 questions.

- Question No 1 will be carrying 28 objective type questions of 1 mark each. In objective type questions there will be 23 multiple choice questions and 5 questions will be of true/false statement. All these 28 objective type questions will be knowledge based and understanding based not application based.
- Question number 2 to 8 (Total 7 questions) will be carrying 2 marks each. There will be 3 questions of internal choice from unit-I, unit-II and unit-IV. Each one will have one theory type question and one numerical type in choice.

3. Question number 9 to 14 (Total 6 questions) will be carrying 3 marks each. There will be three questions of internal choice from unit-III, unit-VI and unit-VIII. Each one will have one theory type question and one numerical type in choice.
4. Question number 15 and 16 will be carrying 5 marks each and there will be internal choice of each of all these questions.
5. Question paper should cover all the syllabus.
6. No question or topic should be repeated in the question paper.
7. Questions in the paper can be asked only from mentioned PSEB syllabus. Questions from any topic which is not mentioned in the syllabus will be considered as out of syllabus question.
8. All 3 sets must be of equal standard and difficulty level of questions should be same in each set.
9. At the end of each question, paper setter must write detailed distribution of marks of each sub-question.
10. Confusing statement type question should not be asked in the paper.
11. Language used should be clearly understood & specific.
12. Time and length limit of paper should be kept in mind while setting the paper.
13. Questions paper should be made according to knowledge, understanding and application part of learning outcomes as shown in the marks distribution.