

# Punjab Board Class 12 Physics Question Paper Structure PDF

## CLASS-XII 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-VII. Each one will have one theory type question and one numerical type 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-IV and unit-VI. 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. From unit-VI (Optics) internal choice question will have one question from ray-optics and choice question from wave-optics. 5 marks question may be asked in parts.
6. Distribution of marks over different dimensions of the paper will be as follows.

<b>LEARNING OUTCOMES</b>	<b>MARKS</b>	<b>PERCENTAGE OF MARKS</b>
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	Electrostatics	09
UNIT-II	Current Electricity	07
UNIT-III	Magnetic effects of current and magnetism	10
UNIT-IV	Electromagnetic Induction & current	07
UNIT-V	Electromagnetic waves	04
UNIT-VI	Optics	14
UNIT-VII	Dual nature of matter	05
UNIT-VIII	Atoms and Nuclei	07
UNIT-IX	Electronics devices	07
<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	Electrostatic	02	01 or N	-	01	09
2	Current Electricity	02	01 or N	01	-	07
3	Magnetic effects of current & magnetism	05	01	01 or N	-	10
4	Electromagnetic Induction & Alternating current	02	01	01 or N	-	07
5	Electromagnetic waves	02	01	-	-	04
6	Optics	06	-	01 or N	01	14
7	Dual Nature of matter	03	01 or N	-	-	05
8	Atoms & Nuclei	02	01	01	-	07
9	Electronic devices	04	-	01	-	07
<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.

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2. 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-VII. Each one will have one theory type question and one numerical type in choice.
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4. Question number 15 and 16 will be carrying 5 marks each and there will be internal choice of each of all these questions. From unit-VI (Optics) internal

choice question will have one question from ray-optics and choice question from wave-optics. 5 marks question may be asked in parts.

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.