DESIGN OF QUESTION PAPER
FIRST MID TERM

CLASS: - XI **SUBJECT: - PHYSICS**
TIME: - 1 Hour **MAX. MARKS:-** 20

The weightage or the distribution of marks over different dimension of the question paper shall be as follows.

1. Weightage to learning outcomes:

Sr. No.	Learning outcomes	Marks	Percentage of marks
1.	Knowledge	05	25%
2.	Understanding	10	50%
3.	Application	05	25%
4.	Skill		
Total		20	100%

2. Weightage to content/ subject units:

Sr. No.	Units	Marks
1.	Physical world	
2.	Unit and measurements	05
3.	Motion in a straight line	06
4.	Motion in a plane	09
5.		
6.		
7.		
8.		
9.		
10.		
Total		20

3. Weightage to forms of questions:

Sr. No.	Form of Questions	Marks for each question	Number of questions	Total Marks
1.	Long Answer Type(LA)	04	01	04
2.	Short Answer Type(SA-I)	02	03	06
3.	Short Answer Type(SA-II)	03	02	06
4.	Very Short Answer Type(VSA)	01	04	04
Total			10	20

.....2.

The expected time for different types of question would be as follows:

Sr.No.	Form of Questions	Approx. time for each question in mins.(t)	Number of questions (n)	Approx. time for each form of question in mins. (n×t)
1.	Long Answer Type(LA)	15	01	15
2.	Short Answer Type(SA-I)	06	03	18
3.	Short Answer Type(SA-II)	08	02	16
4.	Very Short Answer Type(VSA)	02	04	08
Total				

As the total time is calculated on the basis of number of questions required to be answered and the length of their anticipated answers, it would therefore, be advisable for the candidates to budget their time properly by cutting out the superfluous words and be within the expected time limits.

4. Scheme of Option:

   There will be no overall choice. However, there may be internal choice in one sub questions of 3 marks category.

5. Weightage to difficulty level of questions:

Sr. No.	Estimated difficulty level of question	Marks	Percentage
1.	Easy	08	40%
2.	Average	10	50%
3.	Difficult	02	10%
Total		20	100%

A question may vary in difficulty level from individual to individual. As such, the assessment in respect of each question will be made by paper setter, on the basis of general anticipation from the group as a whole, taking the examination. This provision is only to make the paper balanced in weightage, rather than to determine the pattern of marking at any stage.

6. Number of main questions:

   There will be 2 main questions: 2 questions of 10 marks each. In each main question one question of MCQ type will carry one each.

DESIGN OF QUESTION PAPER
FIRST TERM

CLASS: - XI **SUBJECT: - PHYSICS**
TIME: - 2 ½ Hour **MAX. MARKS:-** 55

The weightage or the distribution of marks over different dimension of the question paper shall be as follows.

1. Weightage to learning outcomes:

Sr. No.	Learning outcomes	Marks	Percentage of marks
1.	Knowledge	14	25%
2.	Understanding	28	50%
3.	Application	13	25%
4.	Skill		
Total		55	100%

2. Weightage to content/ subject units:

Sr. No.	Units	Marks
1.	Unit and measurements	02
2.	Motion in a straight line	04
3.	Motion in a plane	05
4.	Laws of Motion	09
5.	Work energy and Power	09
6.	Gravitation	10
7.	Mechanical properties of solid	04
8.	Mechanical properties of Fluids	12
Total		55

3.Weightage to forms of questions:

Sr. No.	Form of Questions	Marks for each question	Number of questions	Total Marks
1.	Long Answer Type(LA)	04	02	08
2.	Short Answer Type(SA-I)	02	11	22
3.	Short Answer Type(SA-II)	03	05	15
4.	Very Short Answer Type(VSA)	01	10	10
Total			28	55

.....2.

The expected time for different types of question would be as follows:

Sr.No.	Form of Questions	Approx. time for each question in mins.(t)	Number of questions (n)	Approx. time for each form of question in mins. (n×t)
1.	Long Answer Type(LA)	12	02	24
2.	Short Answer Type(SA-I)	06	11	66
3.	Short Answer Type(SA-II)	08	05	40
4.	Very Short Answer Type(VSA)	02	10	20
Total			28	150

As the total time is calculated on the basis of number of questions required to be answered and the length of their anticipated answers, it would therefore, be advisable for the candidates to budget their time properly by cutting out the superfluous words and be within the expected time limits.

4. Scheme of Option:

There will be no overall choice. However, is an internal choice in 2 questions of 4 marks category and 1 question of 3 marks category.

5. Weightage to difficulty level of questions:

Sr. No.	Estimated difficulty level of question	Marks	Percentage
1.	Easy	08	40%
2.	Average	10	50%
3.	Difficult	02	10%
Total		20	100%

A question may vary in difficulty level from individual to individual. As such, the assessment in respect of each question will be made by paper setter, on the basis of general anticipation from the group as a whole, taking the examination. This provision is only to make the paper balanced in weightage, rather than to determine the pattern of marking at any stage.

6. Number of main questions:

There will be 5 main questions of 11 marks each.

DESIGN OF QUESTION PAPER
SECOND TERM

CLASS: - XI **SUBJECT: - PHYSICS**
TIME: - 2 ½ Hour **MAX. MARKS:-** 55

The weightage or the distribution of marks over different dimension of the question paper shall be as follows.

1. Weightage to learning outcomes:

Sr. No.	Learning outcomes	Marks	Percentage of marks
1.	Knowledge	14	25%
2.	Understanding	28	50%
3.	Application	13	25%
4.	Skill		
Total		55	100%

2. Weightage to content/ subject units:

Sr. No.	Units	Marks
1.	System of particles and Rotational Motion	11
2.	Thermal properties of matter	06
3.	Thermodynamic	05
4.	Kinetic theory	04
5.	Oscillations	09
6.	Waves	09
7.	Core content from 1st term	11
8.		
Total		55

3.Weightage to forms of questions:

Sr. No.	Form of Questions	Marks for each question	Number of questions	Total Marks
1.	Long Answer Type(LA)	04	02	08
2.	Short Answer Type(SA-I)	02	11	22
3.	Short Answer Type(SA-II)	03	05	15
4.	Very Short Answer Type(VSA)	01	10	10
Total			28	55

.....2.

The expected time for different types of question would be as follows:

Sr.No.	Form of Questions	Approx. time for each question in mins.(t)	Number of questions (n)	Approx. time for each form of question in mins. (n×t)
1.	Long Answer Type(LA)	12	02	24
2.	Short Answer Type(SA-I)	06	11	66
3.	Short Answer Type(SA-II)	08	05	40
4.	Very Short Answer Type(VSA)	02	10	20
Total			28	150

As the total time is calculated on the basis of number of questions required to be answered and the length of their anticipated answers, it would therefore, be advisable for the candidates to budget their time properly by cutting out the superfluous words and be within the expected time limits.

4. Scheme of Option:

There will be no overall choice. However, is an internal choice in 2 questions of 4 marks category and 1 question of 3 marks category.

5. Weightage to difficulty level of questions:

Sr. No.	Estimated difficulty level of question	Marks	Percentage
1.	Easy	11	40%
2.	Average	33	50%
3.	Difficult	11	10%
Total		55	100%

A question may vary in difficulty level from individual to individual. As such, the assessment in respect of each question will be made by paper setter, on the basis of general anticipation from the group as a whole, taking the examination. This provision is only to make the paper balanced in weightage, rather than to determine the pattern of marking at any stage.

6. Number of main questions:

There will be 5 main questions of 11 marks each.

Sub:- PHYSICS

Distribution of marks for the practical examination

I term Max. Marks: 20

1. One experiment 10 marks
2. Record of 5 activities 05 marks
3. Journal 03 marks
4. Viva [expt. & activities] 02 marks

Total 20 marks

II term practical examination will be of the same pattern as that of I term.

Project Total marks : 20

- The project will be evaluated in the 2nd term.
- The project will be alloted in groups of 2-5 students.
- Each group will submit one report and the marks will be alloted to each student according to the following Criteria.

1. Report 05 marks
2. Presentation [oral/PPT] 05 marks
3. Team work 05 marks
4. Viva 05 marks

Total ; 20 marks

The purpose of project is the promotion of :

a) Application of concepts

b) Creative thinking

c) Scientific method

d) Development of Scientific attitude

e) Interest in Scientific exploration beyound the scope of the text books

f) Team work

Theory Assignment: Total marks: 10

Suggested asignment:

1. Numerical Problem
2. Concepttual questions
3. Explanation of the working of various mechanical and electronic devices and machines
4. Life and contribution of Scientists
5. New developments in the field of Physics