



**Maharashtra State Board of Secondary and
Higher Secondary School
Subject : Logic
Std. XII**

Unit-wise distribution of marks.

Units	Content	Marks	Marks with option
1	Decision Procedure	08	11
2	Deductive Proof	08	11
3	Predicate Logic	18	23
4	Traditional Logic	18	28
5	Syllogism	08	15
6	Grounds of Induction	10	16
7	Hypothesis	10	16
	Total	80	120

Objective wise distribution of marks

Sr. No.	Objectives	Marks	Marks With Option
1	Knowledge	16	24
2	Understanding	26	35
3	Application	38	61
	Total	80	120



**Maharashtra State Board of Secondary and
Higher Secondary School
Subject : Logic
Std. XII**

Question wise Distribution of Marks

No.	Types of Questions	Marks	Marks With Option
1	Objectives	20	20
2	Short Answers	54	88
3	Long Answers	06	12
	Total	80	120

Internal Evaluation Exam [20 marks]

No.	Objectives	Marks
1	Fill in the blanks	06
2	Give logical Terms	04
3	True or False	06
4	Match the columns	04
	Total	20

Objective Questions should be either as above or any one can be chosen for 20 marks.



**Maharashtra State Board of Secondary and
Higher Secondary School
Subject : Logic
Std. XII**

**Logic (45)
Question Paper Pattern
[New Syllabus. 2020]**

Marks - 80

Time : 3 Hours

Points to be noted while setting the question paper.

- Question paper should be set ,keeping in mind the average intelligence of the students in Urban and Rural areas.
- The question paper must include: 1] Applications, 2] Expressional questions & 3] Innovative questions.
- The questions asked must not be direct, they should involve thinking to answer it.
- All Questions (objectives& theory) asked, should be from the Exercise given in the textbook only.
- Within a given unit , there should be variety of logic problems asked.[E.g. Incase of Formal fallacies , based on the three basic rules, three different fallacies should be asked.]
- 10% questions must be of difficulty level.
- 25% questions must be objectives.
- Questions should not be repeated in the same question paper.

Note: All questions are compulsory

Figures to the right indicate full marks

Whole statement should be written with Answer for objective Questions.

Answer to each question should be written on a new page.

Q.1 [A] Fill in the blanks with suitable words from those given in the brackets: [6][10]

[B] Give Logical terms for the following: [4]

Q.2. [A] State whether the following statements are true or false: [6][10]

[B] Match the columns: [4]

Q.3.. [A] Use shorter-truth table method to state whether the following statement-forms are tautologous: (Any 2 out of 3) [6][12]

- [B] Construct formal proof of validity by using Conditional proof or Indirect proof for the following Arguments: (Any 2 out of 3) [6]
- Q.4.[A] Give opposition of the following propositions as directed:
(Any 3 out of 5) [6][12]
- [B] Give converse and obverse of the following propositions:
(Any 3 out of 5) [6]
- Q.5. [A] Give Reasons : (Any 2 out of 3) (Ch-3,4 &5) [4][12]
- [B] Recognize with reasons the formal fallacies committed in Categorical syllogism: (Any 2 out of 4) [4]
- [C] Symbolize the following propositions using appropriate quantifiers and propositional Functions given in the brackets: (Any 4 out of 6) [4]
- Q.6. [A] Explain the following : (Any 2 out of 3) (Ch-3,4&5} [6] [12]
- [B] Construct formal proof of validity for the following : (Any 2 out of 3) [6]
- Q.7. [A] Answer in brief: (Any 2 out of 4) [ch-6 & ch-7] [6][12]
- [B] Answer the following: (Any 1 out of 2) [Ch-6 & ch-7] [6]
