

CAREERS 360

**Maharashtra HSC
Mathematics
Statistics
(Commerce)**

MODEL PAPER 2021



**Maharashtra State Board of Secondary and
Higher Secondary Education, Pune**
Subject : Mathematics & Statistics (88)
Std. XII (Commerce)

**Unit-wise distribution of marks.
Part I**

Sr. No.	Topic	Marks with Option
1.	Mathematical Logic	8
2.	Matrices	8
3.	Differentiation	7
4.	Application of Derivatives	9
5.	Integration	7
6.	Definite Integration	5
7.	Application of definite integration	4
8.	Differential Equations and its Applications	10
	Total	58

Part II

Sr. No.	Topic	Marks with Option
1.	Commission , Brokerage and Discount	6
2.	Insurance and Annuity	4
3.	Linear regression	8
4.	Time Series	7
5.	Index Numbers	7
6.	Linear Programming	6
7.	Assignment Problems and Sequencing	9
8.	Probability Distributions	11
	Total	58



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Objective wise distribution of marks.

Sr. No.	Objectives	Marks	Percentage
1.	Knowledge	13	11
2.	Understanding	32	28
3.	Applications and skill	71	61
	Total	116	100

Question wise distribution of marks.

Type of Question	Marks with option
MCQ	12
Objective	12
Short Answer	36
Long Answer	40
Activity Based	16
Total	116

Difficulty wise distribution of marks

Type	Marks	Percentage
Easy	35	30
Average	58	50
Difficult	23	20



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**Format of Question Paper
(From Year 2021)
Annual Examination**

Time : 3 Hours

Total Marks - 80

General Instructions:

- 1) All questions are compulsory.
- 2) There are 6 questions divided into two sections.
- 3) Write answers of Section I and Section II in the **same** answer book.
- 4) Use of logarithmic tables is allowed. Use of calculator is **not** allowed.
- 5) For LPP graph paper is not necessary. Only rough sketch of graph is expected.
- 6) Start answer to each question on a new page.

Section I

Q.1 A) Select and write the most appropriate answer from the given alternatives for each sub-question. (1 mark each) [6]

- i)
- ii)
- iii)
- iv)
- v)
- vi)

B) State whether the following statements are **true** or **false**. (1 mark each)[3]

- i)
- ii)
- iii)

C) Fill in the following blanks. (1 mark each)[3]

- i)
- ii)
- iii)

Q 2.A) Attempt any **two** of the following questions. (3 marks each)[6]

- i)
- ii)
- iii)

B) Attempt any **two** of the following questions. (4 marks each)[8]

- i)
- ii)
- iii)

Q 3.A) Attempt any **two** of the following questions. (3 marks each)[6]

- i)
- ii)
- iii)

B) Attempt any **one** of the following questions. (4 marks each)[4]

- i)
- ii)

C) Attempt any **one** of the following questions. (Activity) (4 marks each)[4]

- i)
- ii)

Section II

Q 4. A) Select and write the most appropriate answer from the given alternatives for each sub-question. (1 mark each)[6]

- i)
- ii)
- iii)
- iv)
- v)
- vi)

B) State whether the following statements are **true** or **false**. (1 mark each)[3]

- i)
- ii)
- iii)

C) Fill in the following blanks. (1 mark each)[3]

- i)
- ii)
- iii)

Q 5.A) Attempt any **two** of the following questions. (3 marks each)[6]

- i)
- ii)
- iii)

B) Attempt any **two** of the following questions. (4 marks each)[8]

- i)
- ii)
- iii)

Q 6.A) Attempt any **two** of the following questions. (3 marks each)[6]

- i)
- ii)
- iii)

B) Attempt any **one** of the following questions. (4 marks each)[4]

- i)
- ii)

C) Attempt any **one** of the following questions. (Activity) (4 marks each)[4]

- i)
- ii)



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Format of Question Paper (Unit Test)

Time : 1.30 Hours

Total Marks - 25

Instructions :

- 1) Use of logarithmic tables is allowed. Use of calculator is not allowed.
- 2) For LPP graph paper is not necessary. Only rough sketch of graph is expected.

Section I

Q 1. A) Select and write the most appropriate answer from (1 mark each) [7]
the given alternatives for each question.

- i)
- ii)
- iii)
- iv)
- v)
- vi)
- vii)

B) Attempt any two of the following questions. (2 marks each) [4]
i)
ii)
iii)

Q 2. A) Attempt any two of the following questions. (3 marks each) [6]
i)
ii)
iii)
iv)

B) Attempt any two of the following questions. (4 marks each)[8]
i)
ii)
iii)
iv)



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Format of Question Paper (Terminal Examination)

Time : 2.30 Hours

Total Marks - 50

Instructions :

- 1) Use of logarithmic tables is allowed. Use of calculator is **not** allowed.
- 3) For LPP graph paper is not necessary. Only rough sketch of graph is expected.

Q 1. A) Select and write the most appropriate answer from (1 mark each) [5]
the given alternatives for each question.

- i)
- ii)
- iii)
- iv)
- v)

B) State whether the following statements are **true** or **false**. (1 mark each) [4]

- i)
- ii)
- iii)
- iv)

C) Fill in the following blanks. (1 mark each) [4]

- i)
- ii)
- iii)
- iv)

Q 2. A) Attempt any **seven** of the following questions. (3 marks each) [21]

- i)
- ii)

iii)

iv)

v)

vi)

vii)

viii)

ix)

x)

B) Attempt any **FOUR** of the following questions.

(4 marks each)[16]

i)

ii)

iii)

iv)

v)

vi)