

CAREERS 360

**Maharashtra HSC
Biology
MODEL PAPER 2021**



**Maharashtra State Board of Secondary and
Higher Secondary Education, Pune**
Sub. : Biology (56)
Std. XII

Weightage According to Learning Objectives

| Sr. No. | Objectives | Total Weightage (With Option) | Percentage |
|----------------|---------------------|--------------------------------------|-------------------|
| 1. | Knowledge | 29 Marks | 30% |
| 2. | Understanding | 41 Marks | 42% |
| 3. | Application & Skill | 28 Marks | 28% |
| | Total | 98 Marks | 100% |

Weightage According to Difficulty level of the questions

| Sr. No. | Level | Total Weightage (With Option) | Percentage |
|----------------|--------------|--------------------------------------|-------------------|
| 1. | Easy | 29 Marks | 30% |
| 2. | Average | 49 Marks | 50% |
| 3. | Difficult | 20 Marks | 20% |
| | Total | 98 Marks | 100% |

Weightage According to types of questions

| Type of questions | Marks for each questions | Number of questions | Total Marks |
|--------------------------|---------------------------------|----------------------------|--------------------|
| MCQ | 1 Mark each | Q. No. 1 (i to x) | 10 Marks |
| VSA | 1 Mark each | Q. No. 2 (i to viii) | 08 Marks |
| SA- I | 2 Marks each | Q. No. 3 to 14 | 24 Marks |
| SA -II | 3 Marks each | Q. No. 15 to 26 | 36 Marks |
| LA | 4 Marks each | Q. No. 27 to 31 | 20 Marks |
| Total | | 31 questions | 98 Marks |



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Question Paper Format For Unit Test
Biology (56)
(Year 2020-2021 Onwards)

Time- 1½ hrs.

Marks : 25

Section A

Q.No.1 Select and write the correct answer: [04]

(i) to (iv) MCQ

Q.No.2 Answer the following: [03]

(i) to (iii) VSA

Section B

Attempt any Four: [08]

Q.No.3 to No. 8 SA- I

Section C

Attempt any Two: [06]

Q.No.9 to No. 11 SA-II

Section D

Attempt any One [04]

Q.No.12 to No. 13 LA



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**Question Paper Format For Terminal Examination
Biology (56)
(Year 2020-2021 Onwards)**

Time- 2½ hrs.

Marks : 50

Section A

Q.No.1 Select and write the correct answer: [07]

(i) to (vii) MCQ

Q.No.2 Answer the following: [07]

(i) to (vii) VSA

Section B

Attempt any Eight: [16]

Q.No.3 to No. 13 SA- I

Section C

Attempt any Four: [12]

Q.No. 14 to No. 19 SA-II

Section D

Attempt any Two: [08]

Q.No. 20 to No. 23 LA



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**Question Paper Format for Annual Examination
Biology (56)
(Year 2020-2021 Onwards)**

Time- 3 hrs.

Total Marks -70

General Instructions:

(1) Section A :

- Q. No. 1 contains Ten multiple choice type of questions carrying one mark each.
- Q. No. 2 contains Eight very short answer type of questions carrying one mark each.

(2) Section B :

- Q. No. 3 to Q. No. 14 are short answer type of questions carrying two marks each.

(3) Section C :

- Q. No. 15 to Q. No. 26 are short answer type of questions carrying Three marks each.

(4) Section D :

- Q. No. 27 to Q. No. 31 are long answer type of questions carrying Four marks each.

(5) Figures to the right indicate full marks.

(6) For each MCQ, correct answer must be written along with its alphabet.

e.g., (a).... / (b)/(c)..... / (d)..... Only first attempt will be considered for evaluation.

Section A

Q. No. 1 Select and Write the correct answer: (10)

(i) to (x) MCQ

Q. No. 2 Answer the following: (08)

(i) to (viii) VSA

Section B

Attempt any Eight: (16)

Q. No. 3 to Q. No. 14 SA - I

Section C

Attempt any Eight: (24)

Q. No.15 to Q. No. 26 SA - II

Section D

Attempt any Three: (12)

Q. No.27 to Q. No. 31 LA



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Chapterwise Distribution Of Marks

| Unit | Ch. No. | Chapter | Marks | Marks with option |
|--------------------------------------|--------------------|---|--------------|----------------------------------|
| 1 Reproduction | 1 | Reproduction in Lower and Higher Plants | 6 | 8 |
| | 2 | Reproduction in Lower and Higher Animals | 6 | 8 |
| 2 Genetics and Evolution | 3 | Inheritance and Variation | 4 | 6 |
| | 4 | Molecular Basis of Inheritance | 4 | 6 |
| | 5 | Origin and Evolution of Life | 4 | 6 |
| 3 Physiology | 6 | Plant Water Relation | 5 | 7 |
| | 7 | Plant Growth and Mineral Nutrition | 5 | 7 |
| | 8 | Respiration and Circulation | 7 | 10 |
| | 9 | Control and Co-ordination | 8 | 11 |
| 4 Applied Biology | 10 | Human Health and Diseases | 3 | 4 |
| | 11 | Enhancement of Food Production | 4 | 6 |
| | 12 | Biotechnology | 5 | 7 |
| 5 Ecology and Environment | 13 | Organisms and Populations | 3 | 4 |
| | 14 | Ecosystems and Energy Flow | 3 | 4 |
| | 15 | Biodiversity, Conservation and Environmental Issues | 3 | 4 |
| | | Total : | 70 | 98 |