

SCHEME OF THEORY EXAMINATION

Sl.No.	Semester	Paper	Marks for theory	Marks for Internal Assessment	Total
1	I	I	60	10	70
2	II	II	60	10	70
3	III	III	60	10	70
4	IV	IV	60	10	70
5	V	V	80	20	100
6	V	VI	80	20	100
7	VI	VII	80	20	100
8	VI	VIII	80	20	100
Total			560	+ 120	680

QUESTION PAPER PATTERN

I-IV SEMESTER

Sl. No	Types of question	Marks /Question	No. of Questions to be asked	No of Questions to be answered	Total
1	Objective	1	05	05	05
2	Short answer	3	07	05	15
3	Medium Type	5	06	04	20
4	Long answer/ Essay	10	03	02	20
Total					60

V- VI SEMESTER

Sl. No	Types of question	Marks /Question	No. of Questions to be asked	No of Questions to be answered	Total
1	objectives	1	6	6	6
2	Short answer	3	10	8	24
3	Medium Type	5	06	04	20
4	Long answer/ Essay	10	05	03	30
Total					80

Distribution of Internal Assessment.

1. Three class test for 10 Marks each will be conducted at the end of each semester.

OR

One class test for 30 Marks will be conducted at the end of each Semester.

Note: Examination question paper pattern will be followed for every class test.

Scheme of Practical examination: -

a) Distribution of Marks (Semester wise):

Sl.No.	Semester	Marks for practical	Marks for Internal assessment
1	I	20	10
2	II	20	10
3	III	20	10
4	IV	20	10
5	V	80	20
6	VI	80	20
Total Marks for Practicals =240		+	80 =320

b) Distribution of Marks for Practicals:

Semester	Marks	Type	Marks
I-IV	a) 20 marks for practical	a) One question from Sericultural Botany Part	07
	b) 10 marks for internal assessment	b) One question from Silkworm Biology Part	07
		c) Identification and Commenting (1.5X4)	06
V-VI	a) 40 marks for practical	a) One major question	12
		b) One minor question	20
	b) 10 marks for Internal assessment	c) One minor question	08
		d) Identification and Commenting (5X4)	10

Note: Questions will be covered from all sections

Internal assessment for practicals:

Semester	Distribution	Marks	Duration
I-IV	a) Based on the performance of students at every practical / field work	05	3 Hrs
	b) Submission of practical records, herbarium and rearing / tour report	05	
V-VI	a) Based on the performance of every student in rearing work / mulberry cultivation and reports	15	4 Hrs
	b) Submission of practical records and tour report	05	

Summary of distribution of Mark:

Theory			Practicals	
Semester	Examination proper	Internal assessment	Examination proper	Internal assessment
For each semester for I-IV	60 Marks	10 marks (one class test and one assignment 05+05=10)	20	10 (5 for regular assessment, 5 for submission of records)
For V-VI	80	20 (one class test for 15 marks and one assignment for 05 marks) +	40	20
	80	20 (one class test for 15 marks and one assignment for 05 marks).	40	20

SCHEME OF PRACTICAL EXAMINATION

Practical I

Max. Marks - 20

Q 1. Taxonomic description of any one of the food plants of mulberry/non-mulberry silkworms. - 07 marks

Note: Distribution of marks

- a) Identification of family / classification - 1.5
- b) Diagnostic features - 4.0
- c) Sericultural importance - 1.5

OR

Sectioning and Mounting of petiole, leaf lamina, stem and root.

Note: Distribution of marks

- a) Preparation - 2.0
- b) Identification - 03
- c) Procedure - 02

Q 2. Any one of the following: - 07 marks

Male/ female reproductive system/ silk glands/ digestive system / nervous system/sex separation at larval/ pupal / moth stage.

Note: Distribution of marks

- a) Dissection/ sex separation - 4.0
- b) Labeled diagram - 3.0

Q 3. Identification: 06 marks ---1.5 marks each.
Any FOUR from the practical syllabus

Practical II

Max. Marks - 20

Q 1. Determination of soil pH/ grafting/ layering/ water holding capacity. -- 07 marks

Note: Distribution of marks

- a) Procedure - 2.0
- b) Diagramme - 1.0
- c) Experiment - 4.0

Q 2. Calculations and procedure about disinfection/ brushing/ bed cleaning/ hatching Percentage -- 07 marks

Note: Distribution of marks

- a) Procedure - 2.0
- b) Experiment - 5.0

Q 3. Identification: 06 marks ---1.5 marks each.
Any FOUR from the practical syllabus.

Practical III**Max. Marks - 20**

Q 1. Separation of photosynthetic pigments/ water holding capacity of potato tubers / Stomatal index
-- 07 marks

Note: Distribution of marks

- a) Procedure - 2.0
- b) Diagramme - 1.0
- c) Experiment - 4.0

Q 2. Mounting of silkworm embryo (7th/ 8th/ 9th day) -- 07 marks

Note: Distribution of marks

- a) Procedure - 2.0
- b) Experiment - 5.0

Q 3. Identification:

Any FOUR from the practical syllabus

06 marks ---1.5 marks each.

Practical IV**Max. Marks - 20**

Q 1. Temporary mounting of any one of the following -- 07 marks
Leaf spot/ leaf rust/ powdery mildew/ root knot nematode of mulberry.

Note: Distribution of marks

- a) Identification - 1.5
- b) Sectioning, staining and mounting -4.0
- c) Labelled diagram - 1.5

Q 2. Temporary mounting of any one of the following. -- 07 marks
Pebrine spore/ nuclear polyhedral bodies/ mycelia and conidial spores.

Note: Distribution of marks

- a) Identification - 1.0
- b) Staining and mounting -4.0
- c) Procedure - 2.0

Q 3. Identification:

Any FOUR from the practical syllabus.

06 marks ---1.5 marks each.

Practical V**Max. Marks - 40****Q 1. Temporary squash preparation of mitotic/ meiotic chromosomes**

Onion root tip/ grasshopper testis/ silkworm testis.

-- 12 marks

Note: Distribution of marks

- a) Procedure - 2.0
- b) Staining and preparation of chromosomes - 6.0
- c) Identification of stages - 2.0
- d) Labelled diagram - 2.0

Q 2. Any one of the following:

-- 10 marks

Mother moth examination/assessment of cocoons of pure races for cocoon weight, shell weight and other racial characters.

Note: Distribution of marks

- a) Procedure - 04.0
- b) Experiment - 06.0

Q 3. Any one of the following:

Evaluation of breeding parameters of different mulberry varieties/ mulberry hybridization experiments.

-- 8 marks

Note: Distribution of marks

- a) Procedure - 03.0
- b) Experiment - 05.0

Q 4. Identification:

Any FIVE from the practical syllabus.

--10 marks -2.5 marks each

Practical VI**Max. Marks - 40****Q 1. Cold/Hot acid treatment of silkworm eggs.**

-- 12 marks

Note: Distribution of marks

- a) Procedure - 4.0
- b) Experiment - 8.0

Q 2. Any one of the following

Pupa/Mother moth examination

-- 10 marks

Note: Distribution of marks

- a) Procedure - 04.0
- b) Experiment - 06.0

Q 3. Any one of the following:

-- 8 marks

Sex separation of pupal or moth stage/loose eggs or laying preparation demonstration/hatching percentage

Note: Distribution of marks

- a) Procedure - 03.0
- b) Experiment - 05.0

Q 4. Identification:

Any FIVE from the practical syllabus.

--10 marks -2.5 marks each

Practical VII**Max. Marks - 40**

- Q 1. Estimation of filament length/ reelability/ raw silk % recovery/ renditta/denier (any two)**
From the given cocoons. -- 12 marks

Note: Distribution of marks

- a) Procedure - 5.0
- b) Experiment - 7.0

- Q 2. Estimation of fibroin and sericin % from the cocoon shell/identification of textile fibers by physical and chemical Tests.** -- 10 marks

Note: Distribution of marks

- a) Procedure - 04.0
- b) Experiment - 06.0

- Q 3. Any one of the following:** -- 8 marks
Identification, sorting and percentage determination of different types of cocoons/
Estimation of shell weight, shell %/ Determination of total alkalinity/ Water pH.

Note: Distribution of marks

- a) Procedure - 03.0
- b) Experiment - 05.0

- Q 4. Identification:** --10 marks (2.5 marks each).
Any FIVE from the practical syllabus.
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Practical VIII**Max. Marks - 40**

- Q 1. Taxonomy of non-mulberry food plants/dissection of any non-mulberry silkworms** -12 mark

Note: Distribution of marks

- a) identification -1.0
- b)classification - 2.0
- c) diagnostic features - 7.0
- d) sericultural importance - 2.0

- Q 2. Preparation of bar charts/graphs/pie charts** - 10 marks

- a) calculation - 04.0
- b) preparation - 06.0

- Q 3. Any one of the following:**
Preparation of charts/handouts/pamphlets
Note: Distribution of marks - 8 marks
- a) Preparation - 08.0

- Q 4. Identification** --10 marks --2.5 marks each
Any FIVE from the practical syllabus.
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