Total No. of Printed Pages—5

CODE : 35T BIOL (BOTA) (Pr / I)
(EN)

2026

Suggestive Guidelines for

BIOLOGY

(Botany)

(Practical)

Full Marks : 15

Time : 1½ hours

The figures in the margin indicate full marks for the questions.

Note : The guidelines for 2026 has to be prepared on this basis without repeating from the suggestive guidelines as far as practicable.

Contd.

INSTRUCTIONS TO EXAMINERS

General Instructions :

1. Examiners are requested to keep ready the required specimens / apparatus / slides / models etc., as per syllabus before commencement of the examinations.

2. Selection of specimens, experiments, slides, models and evaluation of answer scripts etc. are to be done jointly by the external and internal examiners.

3. The practical records must be examined by the external examiner only. Proper weightage to be given for maintaining quality, quantity and regularity in the signature of concerned teachers.

4. If there are more than two groups, repetition of practical materials should be avoided as far as practicable. The materials must not be repeated in the groups.

5. The names of specimens / materials given in the examination should be listed in one question paper duly signed by both external and internal examiners, which should be attached to the top answer scripts of each group's packet.

Contd.

Specific :

1. Specimen 'A' should be selected from an angiospermic bisexual flower prescribed in the syllabus to study reproductive parts. (Ensure that reproductive parts of the selected flower must be moderately large)

Distribution of Marks :

Dissection and display of the parts	:	1
Drawing and labelling	:	1+1=2
Description with technical terms	:	2
Total	:	5 Marks

2. Students with this experiment are allowed to go nearby grassland (preferably institutional campus) with a blank additional answer script duly signed by the internal examiner along with requisite materials etc. As specimen 'B' for study of density of plants' population.

Or

Any one type of soil sample (Sandy / Loamy / Clayey) to be supplied to students as specimen 'B' to study water holding capacity or pH of the supplied soil sample.

Distribution of Marks :

Requis tion	:	1
Observ ation and tabulation of data	:	2
Inferen ce	:	1
Total	:	4 Marks

3. Spot Identification :

Specimen 'C' : *Any one* stage (from permanent slide/model / photograph) either Mitotic Metaphase or Mitotic Anaphase)

Specimen 'D' : *Any one* Hydrophytes (Water Hyacinth / *Nymphaea* / *Pistia* / *Hydrilla*) or Xerophytes [*Opuntia* (Phylloclade) / *Acacia* (Phyllode)] to comment on adaptation.

Specimen 'E' : A pair of Homologous or Analogous plant organs as per syllabus.

Distribution of Marks :

Comments	:	½
Identification	:	½
Total	:	1×3 = 3 Marks

4. Practical Record Book :

Quality	:	1
Quantity	:	1
Regularity	:	1
Total	:	3 Marks

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Questions

1. Dissect and display the reproductive parts of the supplied specimen 'A'. Draw the labeled diagram of dissected parts and describe in scientific terms. 1+2+2=5

2. Study the population density of the plants found in the campus of your institution using Quadrate method. Write requisitions for the experiment, record your observations and find out the results of the experiment. 1+2+1=4

Or

Study the water holding capacity of pH level of supplied soil sample 'B'. Write requisitions of the experiment. Record your observations and find out the result.

3. Identify the specimens 'C', 'D' and 'E' with comments. 1×3=3

4. Practical Note book. 3

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Total No. of Printed Pages—4

CODE : 35T BIOL (ZOOL) (Pr / I)
(EN)

2026

Suggestive Guidelines for

BIOLOGY

(Zoology)

(Practical)

Full Marks : 15

Time : 1½ hours

The figures in the margin indicate full marks for the questions.

Note : The guidelines for 2026 has to be prepared on this basis without repeating from the suggestive guidelines as far as practicable.

Contd.

INSTRUCTIONS TO EXAMINERS

1. Sample 'A' should be collected fresh from nearby water body. Before supplying to the examinee, pH of the sample is to be determined and recorded. After that the examinee should observe the sample under microscope. The examinee reports the results. 1+½+½=2

Allotment of marks :

pH	:	1
Name of the living organisms	:	½+½=1

2. Examinee are to be provided with data (Sample 'B') on genetic trait like seeds of different colors/size of pea. 3+1=4

For each group new/separate data sample set should be provided. Examinee will write the genotypic ratio from F_2 generation.

Allotment of marks :

Dihybrid cross	:	3
Dihybrid ratio	:	1

3. Specimen 'C' should be selected from the following : 1+1=2

(i) T.S. of Blastula

(ii) T.S. of Ovary

(iii) T.S. of Testis

Allotment of marks :

Identification	:	1
Reason	:	1

Contd.

4. Specimen 'D' should be selected from Lizard/Fish/Prawn.
(Preserved specimen/model/picture showing adaptive features)

½+½=1

Allotment of marks :

Two adaptive features : $\frac{1}{2}+\frac{1}{2}=1$

5. Specimen 'E' should be selected from the following : 1+1+1=3

(i) *Plasmodium*

(ii) *Microsporum*

(iii) *Ascaris* (Male/Female)

Allotment of marks :

Identification : 1

Two symptoms : 1+1=2

6. Practical Record Book : 3
(Regularity, neatness and completion of syllabus to be considered)

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Questions

1. Determine the pH of supplied water sample 'A' to you. Write the names of *two* living organisms observed under the microscope. 1+½+½=2

2. Study of Mendel's law of segregation using seeds of different colours/ sizes of pea plant. Make the dihybrid cross and write the ratio. 3+1=4

3. Identify the specimen 'C' with *at least one* specific reason. 1+1=2

4. Write *two* adaptive features of the specimen 'D'. ½+½=1

5. Identify the specimen 'E'. Write *two* symptoms of *two* diseases caused by it. 1+1+1=3

6. Practical record book 3

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