

2016

BOTANY – GENERAL – PRACTICAL

Third Paper

(Module – V)

Full marks – 50

Time : 4 Hours

The figures in the margin indicate full marks

1. Make a microscopic slide preparation of specimen 'A'. Draw, label and describe it. Mention the identifying characters. Name the genus. Leave your preparation.

[Preparation 1, Drawing and labelling 3, Description 2, Identifying characters 2, Name the genus 1] 9

2. Dissect the floral parts of the specimen 'B'. Draw, label and describe the plant and floral parts. Give the floral formula and floral diagram. Mention the family of the specimen with identifying characters. Leave the dissected floral parts for examination.

[Dissection 1, Drawing and labelling 3, Description 3, Floral formula 1, Floral diagram 1, Name of the family 1, Identifying characters of the family 2] 12

3. Identify the following specimens with reasons : 2 x 7
C, D, E, F, G, H, I.

4. Submit Laboratory Records (Laboratory Note Book and Slide) and Field Records (Field Note Book and Herbarium Specimens). (3+2) + (2+3)

5. Viva-Voce. 5

2016
BOTANY-GENERAL-PRACTICAL
Fourth Paper; Group B
Full Marks – 30; Time – 2½ Hours

The figures in the margin indicate full marks

1. Prepare a thin layer of sample 'A' and stain it suitably (Methylene Blue/Crystal Violet).
Draw, label and comment on the morphology of the bacteria.
[Smear – 1, staining – 1, drawing and labelling – 2 comment – 1] 5
 2. Determine the Goodness of fit of sample 'B' by Chi-square analysis.
[Determination of ratio – 1; Calculations – 5, comment - 2] 8
 3. Demonstrate and write the working principle and uses of the instrument supplied to you.
[Demonstration – 1, working principle – 2; uses - 1] 4
 4. Identify the supplied plant specimens 'C' and 'D' and mention their scientific names,
useful parts and uses. [Scientific name – 1, useful parts - ½, uses - ½]
2x2
 5. Submission [Laboratory note book – 3, Field report – 1] 4
 6. Viva-voce 5
-

2017

BOTANY-GENERAL-PRACTICAL

Third Paper (Supplementary)

Module-V

Full Marks- 50

Time: 4 Hours

The figures in the margin indicate full marks

1. Make a microscopic slide preparation of specimen A. Draw, label and describe it. Mention the identifying characters. Name the genus. Leave your preparation.
(Preparation 1, Drawing and labeling 3, Description 2, Identifying characters 2, Name the genus 2) 9
2. Discuss the floral parts of specimen B. Draw label and describe the plant and floral parts. Give the floral formula and floral diagram. Mention the family of the specimen with identifying characters. Leave the dissected floral parts for examination.
(dissection 1, Drawing and labeling 3, Description 3, Floral formula 1, Floral diagram 1, Name of the family 1, Identifying characters of the family 2) 12
3. Identify the following specimens with reasons: 2X7
C,D,E,F,G,H,I.
4. Submit Laboratory Records (Laboratory Note Book and Slide) and Field Records (Fields Note Book and Herbarium Specimens). (3+2)+(2+3)
5. Viva-Voce. 5

2017

BOTANY-GENERAL-PRACTICAL

Third Paper (Supplementary)

Module-VI

Full Marks- 50

Time: 4 Hours

The figures in the margin indicate full marks

1. Set up the experiment. On a separate answer sheet write down the requisition (according to the card drawn by you), experiment procedure, results and comment on the experiment.
[Set up 2, Requisition 3, Procedure 3, Results 3, Comment 1] 12
2. Cut a thin section of the specimen 'A' and prepare a slide by mounting the section in glycerine. Draw and label a portion of the section to show the plan of arrangement of tissues, Identify the plant part with reasons. Leave your preparation.
[Preparation of slide 3, Drawing 3, Labeling 2, Identification with reasons 4] 12
3. By squash technique prepare a slide of specimen 'B'. Select, draw and label metaphase and anaphase stages. Mention two identifying reasons of each of the two stages.
[Prepare of slide 2, Drawing and labeling (1+1) + (1+1), Identifying reasons (2+2)] 10
4. Identify the following with reasons. 3X2
C and D
5. Submit Laboratory records (Laboratory Note Book and Slides). 3+2
6. Viva-Voce. 5

2017

BOTANY-GENERAL-PRACTICAL

Third Paper

(Module-V)

Full marks-50

Time: 4 Hours

The figure in the margin indicate full marks

1. Make a microscopic slide preparation of specimen 'A'. Draw, label and describe it. Mention the identifying character. Name the genus. Leave your preparation.

[Preparation 1, Drawing and labeling 3, Description 2, Identifying characters 2, Name the genus 1] 9

2. Dissect the floral part of the specimen 'B'. Draw, label and describe the plant and floral parts. Give the floral formula and floral diagram. Mention the family of the specimen with identifying characters. Leave the dissected floral parts for examination.

[Dissection 1, Drawing and labeling 3, Description 3 Floral formula 1, Floral diagram 1, Name of the family 1, Identifying characters of the family 2] 12

3. Identify the following specimen with reasons;

C, D, E, F, G, H, I.

2X7

4. Submit Laboratory Records (Laboratory Note Book and Slide) and Field Records (Field Note Book and Herbarium Specimen). (3+2) + (2+3)

5. Viva-voce

5

2017

BOTANY-GENERAL-PRACTICAL

Third Paper

(Module-VI)

Full marks-50

Time: 4 Hours

The figure in the margin indicate full marks

1. Set up the experiment. On a separate answer sheet write down the requisition (according to the card drawn by you), experimental procedure, results and comment on the experiment.

[Setting up 2, Requisition 3, Procedure 3, result 3, Comment 1] 12

2. Cut a thin section of the specimen 'A' and prepare a slide by mounting the section in glycerine. Draw and label a portion of the section to show the plan of arrangement of tissues, Identify the plant part with reasons, Leave your preparation.

[Preparation of slide 3 (section-2, Mounting-1) Drawing 3, Labelling-2, Identification with reasons 4] 12

3. By squash technique prepare a slide of specimen 'B'. Select, draw and label metaphase and anaphase stages. Mention two identifying reasons of each of the two stages.

[Preparation of slide 2, Drawing and labeling (1+1) + (1+1), Identifying reasons (2+2)] 10

4. Identify the following with reasons

C and D 3X2

5. Submit Laboratory records (Laboratory Note Book and slide) 3+2

6. viva- voce. 5

2018

BOTANY - GENERAL - PRACTICAL

Third Paper

(Module - V)

Full marks- 50

Time: 4 Hours

The figures in the margin indicate full marks

1. Make a microscopic slide preparation of specimen 'A'. Draw, label and describe it. Mention the identifying characters. Name the genus. Leave your preparation.

[Preparation 1, Drawing and labelling 3, Description 2, Identifying characters 2, Name the genus 1] 9

2. Dissect the floral parts of the specimen 'B'. Draw, label and describe the plant and floral parts. Give the floral formula and floral diagram. Mention the family of the specimen with identifying characters. Leave the dissected floral parts for examination.

[Dissection 1, Drawing and labelling 3, Description 3, Floral formula 1, Floral diagram 1, Name of the family 1, Identifying characters of the family 2] 12

3. Identify the following specimens with reasons:
C, D, E, F, G, H, I.

2x7

4. Submit Laboratory Records (Laboratory Note Book and Slide) and Field Records (Field Note Book and Herbarium Specimens).

(3+2) + (2+3)

5. Viva-Voce

5

2018

BOTANY - GENERAL - PRACTICAL

Third Paper

(Module - VI)

Full marks- 50

Time: 4 Hours

The figures in the margin indicate full marks

1. Set up the experiment. On a separate answer sheet write down the requisition (according to the card drawn by you), experimental procedure, results and comment on the experiment.

[Setting up 2, Requisition 3, Procedure 3, Result 3, Comment 1]

12

2. Cut a thin section of the specimen 'A' and prepare a slide by mounting the section in glycerine. Draw and label a portion of the section to show the plan of arrangement of tissues, Identify the plant part with reasons. Leave your preparation.

[Preparation of slide 3 (Section-2, Mounting-1), Drawing 3, Labelling 2, Identification with reasons 4]

12

3. By squash technique prepare a slide of specimen 'B'. Select, draw, and label metaphase and anaphase stages. Mention two identifying reasons of each of the two stages.

[Preparation of slide 2, Drawing & labelling (1+1) +(1+1), Identifying reasons (2+2)]

10

4. Identify the following with reasons
C and D

3x2

5. Submit Laboratory records (Laboratory Note Book and Slides)

3+2

6. Viva-Voce.

5

2018

BOTANY-GENERAL-PRACTICAL

Fourth Paper; Group B

Full Marks – 30; Time – 3 hours

The figures in the margin indicate full marks

1. Prepare a thin layer of the sample 'A' and stain it suitable (Methylene Blue/Crystal Violet).
Draw, label and comment on the morphology of the bacteria.
[Smear – 1; Staining - 1; Drawing and labelling - 2; Comment – 1] 5
2. Determine the Goodness of fit of sample 'B' by χ^2 (Chi-square) analysis.
[Determination of ratio – 1; Calculations - 5; Comment – 2] 8
3. Demonstrate and write the working principle and uses of the instrument supplied to you.
[Demonstration – 1; Working principle – 2; Uses – 1] 4
4. Identify the supplied specimens 'C' and 'D' and mention their scientific names, useful parts and uses. [Scientific name – 1; Useful parts - $\frac{1}{2}$; Uses - $\frac{1}{2}$] 2 × 2
5. Submission [Laboratory note book – 3; Field report – 1] 4
6. Viva-voce 5

2019

BOTANY-GENERAL-PRACTICAL

Fourth Paper; Group B

Full Marks – 30; Time – 3 hours

The figures in the margin indicate full marks

1. Prepare a thin layer of the sample 'A' and stain it suitable (Methylene Blue/Crystal Violet).
Draw, label and comment on the morphology of the bacteria.
[Smear – 1, staining -1, drawing and labelling -2, comment – 1] 5
2. Determine the Goodness of fit of sample 'B' by χ^2 (Chi-square) analysis.
[Determination of ratio – 1; Calculations -5; Comment – 2] 8
3. Demonstrate and write the working principle and uses of the instrument supplied to you.
[Demonstration – 1; Working principle – 2; Uses – 1] 4
4. Identify the supplied specimens 'C' and 'D' and mention their scientific names, useful parts and uses. [Scientific name – 1, useful parts - ½, uses - ½] 2 × 2
5. Submission [Laboratory note book – 3, Field report – 1] 4
6. Viva-voce 5

2020

BOTANY – GENERAL – PRACTICAL

Third Paper

(Module – V)

Full marks – 50

Time: 4Hours

The figure of the margin indicates full marks

1. Make microscopic slide preparation of specimen A. Draw, label and describe it. Mention the identifying characters. Name the genus. Leave your Preparation.
[Preparation 1, draw and labelling 3, Description 2, Identifying characters 2, Name the genus 1] 9
2. Dissect the floral parts of the specimen B. Draw, label and describe the plant and floral parts. Give the floral formula and floral parts. Give the floral formula and floral diagram. Mention the family of the specimen with identifying characters. Leave the dissected floral parts for examination.
[Dissection 1, Drawing and labelling 3, Floral formula 1, Floral diagram 1, Name the family 1, Identifying characters of the family 2] 12
3. Identify the following specimens with reasons: 2X7
C, D, E, F, G, H, I
4. Submit Laboratory records (Laboratory Note Book and Slide) and field records (Field note book and Herbarium specimens) (3+2)+(2+3)
5. Viva – Voce 5

2020

BOTANY – GENERAL – PRACTICAL

Third Paper

(Module – VI)

Full marks – 50

Time: 4Hours

The figure of the margin indicates full marks

1. Set up the experiment. On a separate answer sheet write down the requisition (according to the card drawn by you), experimental procedure, results and comment on the experiment.
[Setting up 2, Requisition 3, Procedure 3, Result 3, Comment 1] **12**
2. Cut a thin section of the specimen 'A' and prepare a slide by mounting the Section in glycerine. Draw and label a portion of the section to show the plan of arrangement of tissues, Identify the plant part with reasons. Leave your Preparation.
[Preparation of slide 3 (Section-2, Mouting-1), Drawing 3, Labelling 2, Identification with reason-4] **12**
3. By squash technique prepare a slide of specimen 'B'. Select, draw, and label metaphase and anaphase stages. Mention two identifying reasons of each of two stages.
[Preparation of slide 2, Drawing & labelling (1+1) + (1+ 1), Identifying reason (2+2).] **10**
4. Identify the following with reasons C and D. **3X2**
5. Submit Laboratory records (Laboratory Note Book and Slides). **3+2**
6. Viva – Voce. **5**