

UNIVERSITY OF MYSORE
Estd. 1916

No.AC2(S)/164/2021-22

Vishwavidyalaya Karyasoudha
Crawford Hall, Mysuru- 570 005

Dated: 16-02-2022

Notification

Sub:- Examination pattern, Scheme of Practical Exams & Open Elective of Botany (UG) with effective from the Academic year 2021-22 Academic year 2021-22 as per NEP-2020.

- Ref:-**
1. Decision of Board of Studies in Botany (UG) meeting held on 24-11-2021.
 2. Decision of the Faculty of Science & Technology Meeting held on 20-12-2021.
 3. Decision of the Academic Council meeting held on 23-12-2021.

The Board of studies in Botany (UG) which met on 24-11-2021 has made changes of examination pattern, Scheme of Practical Exams & Open Elective of Botany (UG) with effective from the Academic year 2021-22 as per NEP-2020.

The Faculty of Science & Technology and Academic Council at their meetings held on 20-12-2021 and 23-12-2021 respectively have also approved the above said proposal and it is hereby notified.

The Curriculum & Syllabus is annexed herewith and the contents may be downloaded from the University Website i.e., www.uni-mysore.ac.in.

DRAFT APPROVED BY THE REGISTRAR

16/2
Deputy Registrar (Academic)
University of Mysore
Mysore-570 005

To:-

1. All the Principal of affiliated Colleges of University of Mysore, Mysore.
2. The Registrar (Evaluation), University of Mysore, Mysuru.
3. The Chairman, BOS/DOS, in Botany (UG), Manasagangothri, Mysore.
4. The Dean, Faculty of Science & Technology, DoS in Earth Science, MGM.
5. The Director, Distance Education Programme, Moulya Bhavan, Manasagangothri, Mysuru.
6. The Director, PMEB, Manasagangothri, Mysore.
7. Director, College Development Council, Manasagangothri, Mysore.
8. The Deputy Registrar/Assistant Registrar/Superintendent, Administrative Branch and Examination Branch, University of Mysore, Mysuru.
9. The PA to Vice-Chancellor/ Registrar/ Registrar (Evaluation), University of Mysore, Mysuru.
10. Office Copy.

DSC A-1
SCHEME OF BOTANY THEORY EXAMINATION
I SEMESTER
MODEL QUESTION PAPER
Title of the Paper: MICROBIAL DIVERSITY AND TECHNOLOGY

Time: 3 Hours

Max Marks- 60

Instructions: Draw neat labelled diagrams wherever necessary

I. Define/Explain any Four of the following: 2X4=8 Marks

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

II. Answer any Four of the following: 5X4=20 Marks

- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

III. Answer any Four of the following: 8X4=32 Marks

- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

Weightage of Marks DSC A-1				
Units	2 marks	5 marks	8 marks	Total Mks.
I	2X2=4	5X2=10	8X1=08	22
II	2X1=2	5X1=05	8X2=16	23
III	2X2=4	5X1=05	8X1=08	17
IV	2X1=2	5X2=10	8X2=16	28
	12 Marks	30Marks	48 Marks	90 Marks

DSC A-2
SCHEME OF BOTANY THEORY EXAMINATION
II SEMESTER
MODEL QUESTION PAPER
Title of the Paper: DIVERSITY OF NON FLOWERING PLANTS

Time: 3 Hours

Max Marks- 60

Instructions: Draw neat labelled diagrams wherever necessary

I. Define/Explain any Four of the following: 2X4=8 Marks

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

II. Answer any Four of the following: 5X4=20 Marks

- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

III. Answer any Four of the following: 8X4=32 Marks

- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

Weightage of Marks		DSC A-2		
Units	2 marks	5 marks	8 marks	Total Mks.
I	2X2=4	5X2=10	8X1=08	22
II	2X1=2	5X2=10	8X2=16	28
III	2X1=2	5X1=05	8X2=16	23
IV	2X2=4	5X1=05	8X1=08	17
	12 Marks	30Marks	48 Marks	90 Marks

SCHEME OF BOTANY PRACTICAL EXAMINATION
I SEMESTER : PAPER A-1
MODEL QUESTION PAPER
Title of the Paper: MICROBIAL DIVERSITY AND TECHNOLOGY

Time: 3 Hours

Max Marks- 25

- I. Write critical notes on A, B & C** **3X2=6 Marks**
A and B- Microbial Instruments (As mentioned in the syllabus)
C- Microbiologists (As mentioned in the Syllabus)
(Identification- 1 mark, Application/Contribution- 1Mark)
- II. Bacterial staining D -Simple / Gram's staining** **5 Marks**
(Preparation- 3 Marks Flow chart- 2 Marks)
- III. Prepare a temporary stained slide E of the given material and leave the preparation for evaluation.** **5 Marks**
(*Rhizobium, Rhizopus, Saccharomyces, Penicillium*)
(Identification- 1 Mark, Mounting- 2 Marks, Diagram with reasons- 2 Marks)
- IV. Identify the Specimens F & G** **2X3=6 Marks**
(F- Albugo, Phytophthora, Agaricus, Lycoperdon)
(G - Plant Diseases (As Mentioned in the Syllabus))
(Identification with Diagram - 2 Marks, Reason – 1Mark)
- V. Identify the Permanent Slide H** **3 Marks**
(Fungi/Pathology)
(Identification & Diagram- 2 Marks, reasons- 1 Marks)

SCHEME OF BOTANY PRACTICAL EXAMINATION
II SEMESTER: PAPER A-2
MODEL QUESTION PAPER
Title of the Paper: DIVERSITY OF NON- FLOWERING PLANTS

Time: 3 Hours

Max Marks- 25

- I. Prepare a temporary stained slide of the given material A and leave the preparation for evaluation** **5 Marks**
Algae (Nostoc, Oedogonium, Chara, Batrachospermum / Polysiphonia)
(Preparation - 2 Marks, Diagram-1 Mark, Identification with Reasons- 2 Marks)

II. Identify the given specimens B & C **2X3=6 Marks**
B- Bryophytes (Marchantia and Anthoceros)
C- Pteridophytes (Selaginella, Equisetum, Pteris , Azolla,)
 (Identification- 1 Mark, Diagram with reasons- 2 Marks)

III. Identify the Permanent Slides D, E, F & G **4X2=8 Marks**
 (One each from Algae, Bryophyte, Pteridophyte and Gymnosperms)
 (Identification- 1 Mark, Diagram with Reasons-1 Marks)

IV. Comment on H & I **2X3=6 Marks**
H- Gymnosperm
I - Fossils
 (Identification- 1 Mark, Diagram with Reasons- 2 Marks)

Formative Assessment for Theory PAPER DSC A-1 & A-2	
Assessment	40 Marks
C₁= Test I & II	(10+10)=20 Marks
C₂ = Assignment +Seminar /Viva	(10+10)=20 Marks

Formative Assessment for Practicals PAPER A-1 & A-2	
Assessment	25 Marks
C₁= I A Test	10 Marks
C₂ = Assignment + Report or Submission + Record	(5+5+5) 15 Marks

OPEN ELECTIVE -1.1
SCHEME OF BOTANY THEORY EXAMINATION
I SEMESTER
MODEL QUESTION PAPER
Title of the Paper: PLANTS AND HUMAN WELFARE

Time: 3 Hours

Max Marks- 60

Instructions: Draw neat labelled diagrams wherever necessary

I. Define/Explain any Four of the following **2X4=8 Marks**

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

II. Answer any Four of the following **5X4=20 Marks**

- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

III. Answer any Four of the following **8X4=32 Marks**

- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

Weightage of Marks				
OPEN ELECTIVE - 1-1				
Units	2 marks	5 marks	8 marks	Total Mks.
I	2X2=4	5X2=10	8X2=16	30
II	2X2=4	5X2=10	8X2=16	30
III	2X2=4	5X2=10	8X2=16	30
	12 Marks	30Marks	48 Marks	90 Marks

OPEN ELECTIVE -1.2
SCHEME OF BOTANY THEORY EXAMINATION
I SEMESTER
MODEL QUESTION PAPER
Title of the Paper: BOTANY FOR BEGINNERS

Time: 3 Hours

Max Marks- 60

Instructions: Draw neat labelled diagrams wherever necessary

I. Define/Explain any Four of the following 2X4=8 Marks

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

II. Answer any Four of the following 5X4=20 Marks

- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

III. Answer any Four of the following 8X4=32 Marks

- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

Weightage of Marks OPEN ELECTIVE - 1-2				
Units	2 marks	5 marks	8 marks	Total Mks.
I	2X2=4	5X2=10	8X2=16	30
II	2X2=4	5X2=10	8X2=16	30
III	2X2=4	5X2=10	8X2=16	30
	12 Marks	30Marks	48 Marks	90 Marks

OPEN ELECTIVE -1.3
SCHEME OF BOTANY THEORY EXAMINATION
I SEMESTER:
MODEL QUESTION PAPER
Title of the Paper: MUSHROOM CULTIVATION

Time: 3 Hours

Max Marks- 60

Instructions: Draw neat labelled diagrams wherever necessary

I. Define/Explain any Four of the following **2X4=8 Marks**

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

II. Answer any Four of the following **5X4=20 Marks**

- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

III. Answer any Four of the following **8X4=32 Marks**

- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

Weightage of Marks					OPEN ELECTIVE - 1-3				
Units	2 marks		5 marks		8 marks		Total Mks.		
I	2X2=4		5X2=10		8X2=16		30		
II	2X2=4		5X2=10		8X2=16		30		
III	2X2=4		5X2=10		8X2=16		30		
	12 Marks		30Marks		48 Marks		90 Marks		

Formative Assessment for Theory Open Elective for 1.1, 1.2 & 1.3	
Assessment	40 Marks
C₁ = Test I & II	(10+10)=20 Marks
C₂ = Assignment + Seminar /Viva	(10+10)=20 Marks

**OPEN ELECTIVE -2.1
SCHEME OF BOTANY THEORY EXAMINATION
II SEMESTER
MODEL QUESTION PAPER**

**Title of the Paper: PLANT PROPAGATION, NUSERY MANAGEMENT AND
GARDENING**

Time: 3 Hours

Max Marks- 60

Instructions: Draw neat labelled diagrams wherever necessary

I. Define/Explain any Four of the following 2X4=8 Marks

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

II. Answer any Four of the following 5X4=20 Marks

- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

III. Answer any Four of the following 8X4=32 Marks

- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

Weightage of Marks OPEN ELECTIVE - 2-1				
Units	2 marks	5 marks	8 marks	Total Mks.
I	2X2=4	5X2=10	8X2=16	30
II	2X2=4	5X2=10	8X2=16	30
III	2X2=4	5X2=10	8X2=16	30
	12 Marks	30Marks	48 Marks	90 Marks

OPEN ELECTIVE -2.2
SCHEME OF BOTANY THEORY EXAMINATION
II SEMESTER
MODEL QUESTION PAPER
Title of the Paper: BIO -FUELS

Time: 3 Hours

Max Marks- 60

Instructions: Draw neat labelled diagrams wherever necessary

I. Define/Explain any Four of the following **2X4=8 Marks**

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

II. Answer any Four of the following **5X4=20 Marks**

- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

III. Answer any Four of the following **8X4=32 Marks**

- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

Weightage of Marks OPEN ELECTIVE - 2-2				
Units	2 marks	5 marks	8 marks	Total Mks.
I	2X2=4	5X2=10	8X2=16	30
II	2X2=4	5X2=10	8X2=16	30
III	2X2=4	5X2=10	8X2=16	30
	12 Marks	30Marks	48 Marks	90 Marks

OPEN ELECTIVE -2.3
SCHEME OF BOTANY THEORY EXAMINATION
II SEMESTER:
MODEL QUESTION PAPER
Title of the Paper: BIO FERTILIZERS

Time: 3 Hours

Max Marks- 60

Instructions: Draw neat labelled diagrams wherever necessary

I. Define/Explain any Four of the following **2X4=8 Marks**

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

II. Answer any Four of the following **5X4=20 Marks**

- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

III. Answer any Four of the following **8X4=32 Marks**

- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

Weightage of Marks OPEN ELECTIVE – 2-3				
Units	2 marks	5 marks	8 marks	Total Mks.
I	2X2=4	5X2=10	8X2=16	30
II	2X2=4	5X2=10	8X2=16	30
III	2X2=4	5X2=10	8X2=16	30
	12 Marks	30Marks	48 Marks	90 Marks

<i>Internal Assessment for theory II semesters</i>	
Open Elective for 2.1, 2.2 & 2.3	
Assessment	40 Marks
C₁ = Test I & II	(10+10)=20 Marks
C₂ = Assignment + Seminar /Viva	(10+10)=20 Marks