UNIVERSITY OF MUMBAI

No.UG/ 543

CIRCULAR:

A reference is invited to the scheme of papers at the Bachelor of Science (B.Sc.) degree course under revised pattern vide Pamphlet No. 151 and to this office Circular No. UG/294 of 1998 dated 9th August, 1998 and the Principal of the affiliated colleges in the Faculty of Science are hereby informed that the recommendation made by the Board of Studies in Botany at its meeting held on 25th March, 2004, has been accepted by the Academic Council at its meeting held on 2nd April, 2004 vide item No.4.62 and that in accordance therewith the format of skeleton Paper for Practical Examination in the subject of Botany at the T.Y.B.Sc. examination is as per Appendix and that the same has been brought into force with effect from the first half of the year 2004. s france) especiale est de aret

To.

Mumbai 400 032,
22nd December, 2004

To a second second

The Principals of the affiliated colleges in the Faculty of Science.

A.C.4.62/02.04.2004

No.UG/543-A

of 2004

22nd December, 2004,

Copy forwarded with Compliments for information to :-

1) The Dean, Faculty of Science,

2) The Chairman, Board of Studies in Botany.

for 16. REGISTRAR.

P.T.O.

Item No.4,62/02.04.2004

University of Mumbai

T.Y.B.Sc. PRACTICAL EXAMINATION (Revised Course)

BOTANY-PRACTICAL-I (Skeleton Paper) (Microbiology, Algae, Fungi, Bryophyta Pteridophyta)
 (Total Marks: 50) Perform the given microbiology experiment A. Identify, classify and describe briefly specimens B, C, D,E,F, and G Sketch a neat labeled diagram of morphological/microscopical structures seen in the appairment.
4. Journal.
Key to Examiners: A Microbiology experiment as per slips B,C,D,E,F and G Algae, fungi, Bryophyta, Pteridophyta H,I,J,K and L Algae (includes range of thallus), fungi, plantdiseases, Bryophyta, Pteridophyta and soral arrangements in Pteridophytes.

T.Y.B.Sc. PRACTICAL EXAMINATION (Revised Course)

BOTANY-PRACTICAL-II

(Gymnosperms, Palcobotany, Angiosperms, Embryology, Palynology, Anatomy)

(Total Marks 50)

)

1. a) Identify classify and describe briefly specimen A. Sketch a neat labeled diagram of morphological/microscopical structures seen in the specimen 4

b) Describe the morphological features of specimen B.	5
e) Classify specimens C and D upto their respective families	
giving reasons. Give floral formulae. Sketch labelled diagram	ms
of L.S. of flower and T.S. of ovary.	8
d) Identify the genus and species of specimen E using flora.	5
2. Perform the experiment F allotted to you	6
3. Make a double stained preparation of T. S. of specimen G.	14,4
Comment on its secondary growth. Sketch and label the parts	57H 1. 11
4. Identify and describe slides/specimens H, I and J	9
5. Viva-voce	5
그 그 그 그 그 이 원인 나는 모스를 받는데 말라면 되었다. 생활하다면 바다 나는	
Key to Examiners : A: Gymnosperm	
B: Entire morphology	
C and D : Families	
E: Genus and Species	
F: Embryology/Palynology as per slips	
G: Anomalous secondary growth	
H.I and J:Gymnosperms, Embryology, Palynology	v
Anatomy	
그 그 그 그 그렇게 그 그 그리면 하는 하는 하는 사람들은 얼굴을 가득하면 화촉 살이 하는 다	
T.Y.B.Sc. PRACTICAL EXAMINATION	
(Revised Course)	1.15
	** - J. **
BOTANY-PRACTICAL-III	
(Physiology, Cytogenetics, Biometry, Environmental Botany)	
Solve States, 2. on the first Dotally)	
(Total Marks 50)	
1. From the given photomicrgraph Prepare an idiogram and comm	ant an
its nature/write DNA sequence/determine the sequence of amine	ont on
in the protein molecule.	~
2. Determine the mean, median and mode/frequency distribution/	7
standard deviation/coefficient of correlation/chi square test, usir	
plant material B/given data.	
3. Perform the Physiology/Ecology experiment C allotted to you.	10
Write down your observation was a land and a land and a land and a land and a land a l	
Write down your observations and calculations.	
(Major Physiology/Major Ecology experiment)	15
$\mathcal{G}(\mathcal{G})$	3/-

4. Perform the Physiology/Ecology experiment D allotted to you.
Write do n your observations and calculations.
(Address remains and I'm T
5. a) Journal
b)Field Report
a) Journal b) Field Report
T.Y.B.Sc. PRACTICAL EXAMINATION
(Revised Course)
BOTANY-PRACTICAL-IV
(Current trends in Plant Sciences)
(Total Marks 50)
1 Portom the simulation of A
1. I enorm the given experiment A
2. Figure a squash from the given material D
3. With the help of neat labeled sketches describe the macroscopic/e microscopic structures in specimen C and D. Identify the principle
ingredients by means of chemical tests.
4. Identify and describe the slides/specimens/photographys: E,F and G 9
5. Viva Voce
A: Experiments: Study of nitrate reductase from treated and control plants
Extraction of pigments from turmeric, beet and Lawsonia.
Extraction of phenolics from Capsicum
Extraction of alkaloids from Nicotiana
Extraction of sulphur compounds from garlic.
and the control of th
C and D: Medicinal Botany as per theory syllabus
E, F and G: Sources of paper, types of fibres, plants yielding natural dyes
and pigments (as per theory) Pharmaceutical aids health foods as per theory
