

UNIVERSITY OF MUMBAI

No.UG / 156 of 2008

CIRCULAR :-

A reference is invited to the Ordinances, Regulations and syllabi relating to the Master of Science (M.Sc. Parts -- I & II) degree course vide Pamphlet No. 175 and the Head, University Department of Life Sciences, the Directors/Heads of recognized Science Institutions concerned and the Principals of affiliated Colleges in Science are hereby informed that the recommendation made by the Board of Studies in Botany at its meeting held on 5th February, 2008 has been accepted by the Academic Council at its meeting held on 27 February, 2008 vide item No. 4.23 and that, in accordance therewith, the pattern of question paper in the subject of Herbal Science at the M. Sc. (Part - II) (Theory and Practical) examination is revised as per Appendix and that the same will be brought into force with effect from the examination to be held from first half of the year 2008.

MUMBAI-400 032

9th April, 2008.

for i/c REGISTER

To,

The Head, University Department of Life Sciences, the Directors/Heads of recognized Science Institutions concerned and the Principals of the affiliated Colleges in Science.

A.C./4.23/27.02.2008

No.UG/156-A of 2008,

MUMBAI-400 032

9th April, 2008

Copy forwarded with compliments for information to :-

- 1) The Dean, Faculty of Science.
- 2) The Chairperson, Board of Studies in Botany.
- 3) The Controller of Examinations,
- 4) The Co-Ordinator, University Computerization Centre.

for i/c. REGISTRAR

Copy to :-

The Director, Board of College and University Development, the Deputy Registrar (Eligibility and Migration Section), the Director of Students Welfare, the Executive Secretary to the Vice-Chancellor, the Pro-Vice-Chancellor, the Registrar and the Assistant Registrar, Administrative sub-center, Ratnagiri for information.
The Controller of Examinations (10 copies), the Finance and Accounts Officer (2 copies), Record Section (5 copies), Publications Section (5 copies), the Deputy Registrar, Enrolment, Eligibility and Migration Section (3 copies), the Deputy Registrar, Statistical Unit (2 copies), the Deputy Registrar (Accounts Section), Vidyanagari (2 copies), the Deputy Registrar, Affiliation Section (2 copies), the Director, Institute of Distance Education, (10 copies) the Director University Computer Center (IDE Building), Vidyanagari, (2 copies) the Deputy Registrar (Special Cell), the Deputy Registrar, (PRO) the Assistant Registrar, Academic Authorities Unit (2 copies) and the Assistant Registrar, Executive Authorities Unit (2 copies). They are requested to treat this as action taken report on the resolution adopted by the Academic Council referred to in the above Circular and that, no separate report will be sent in this connection. The Assistant Registrar Constituent Colleges, U.S.

UNIVERSITY OF MUMBAI



Pattern of Question Papers
in
Herbal Sciences
at
M.Sc. (Part-II)

**(With effect from the Examination to be held
from first half of 2008)**

M.Sc. HERBAL SCIENCES

QUESTION PAPER PATTERN FOR M.Sc. Part II THEORY EXAMINATION

PAPER-V

Duration : 3 Hours Total Marks : 75

- Q.1. Based on Unit-I. -----15 marks
(Set questions for 22 marks with internal option.)
- Q.2. Based on Unit-II -----15 marks
(Set questions for 22 marks with internal option.)
- Q.3. Based on Unit-III -----15 marks
(Set questions for 22 marks with internal option.)
- Q.4. Based on Unit-I, II & III -----15 marks
(Set questions for 20 marks with internal option.)
- Q.5. Based on Unit-I, II & III -----15 marks
(Set questions for 20 marks with internal option.)
-

PAPER-VI

Duration : 3 Hours Total Marks : 75

- Q.1. Based on Unit-I. -----15 marks
(Set questions for 22 marks with internal option.)
- Q.2. Based on Unit-II -----15 marks
(Set questions for 22 marks with internal option.)
- Q.3. Based on Unit-III -----15 marks
(Set questions for 22 marks with internal option.)
- Q.4. Based on Unit-I, II & III -----15 marks
(Set questions for 20 marks with internal option.)
- Q.5. Based on Unit-I, II & III -----15 marks
(Set questions for 20 marks with internal option.)
-

PAPER-VII

Duration : 3 Hours

Total Marks : 75

- Q.1. Based on Unit-I. -----15 marks
(Set questions for 22 marks with internal option.)
- Q.2. Based on Unit-II -----15 marks
(Set questions for 22 marks with internal option.)
- Q.3. Based on Unit-III -----15 marks
(Set questions for 22 marks with internal option.)
- Q.4. Based on Unit-I, II & III -----15 marks
(Set questions for 20 marks with internal option.)
- Q.5. Based on Unit-I, II & III -----15 marks
(Set questions for 20 marks with internal option.)
-

PAPER-VIII

Duration : 3 Hours

Total Marks : 75

- Q.1. Based on Unit-I. -----15 marks
(Set questions for 22 marks with internal option.)
- Q.2. Based on Unit-II -----15 marks
(Set questions for 22 marks with internal option.)
- Q.3. Based on Unit-III -----15 marks
(Set questions for 22 marks with internal option.)
- Q.4. Based on Unit-I, II & III -----15 marks
(Set questions for 20 marks with internal option.)
- Q.5. Based on Unit-I, II & III -----15 marks
(Set questions for 20 marks with internal option.)
-

M.Sc. HERBAL SCIENCES
QUESTION PAPER PATTERN
FOR M.Sc. Part II PRACTICAL EXAMINATION

Duration : 6 Hours

PRACTICAL V

Total Marks: 50

- Q.1. Prepare the smear and stain it to demonstrate the cell structure by Gram's staining / endospore staining / acid fast staining. (Any two) 10
- Q.2. Study the growth curve pattern of *E.coli* and comment on your observations. 10
- OR
- Study the growth curve pattern of *E.coli* at room temperature/ static conditions and determine whether there is any change in the growth pattern.
- Q.3. Determine the MIC of Sugar / NaCl. 09
- Q.4. Estimate the level of enzyme GOT / GPT in the given serum sample and comment on the results. 10
- Q.5. Identify and describe the slides / specimens / photographs A, B, C. 06
- Q.6. Journal. 05
-

PRACTICAL VI

Duration : 6 Hours

Total Marks: 50

- Q.1. Identify the microbial contaminants from the given herbal product. 10
- Q.2. Analyse the sample stored at various storage conditions (any two) and comment on it. 10
- Q.3. Prepare an advertisement for Herbal product supplied to you and present a report on the same. 10
- OR
- Prepare an application for registration of patent of herbal product.
- Q.4. Submission and presentation of the report on Project plan for establishing herbal industry with reference to finance, technical assistance, marketing strategy etc. 10
- Q.5. Submit the case study report on your visit to any herbal industry. 05
- Q.6. Submission of advertisements on herbal products from print media. 05
-

PRACTICAL VII and PRACTICAL VIII

Both the practicals namely Practical III and IV will be of 6Hours (six hours) duration.

The practical batch size is of 10 students. Practical VII and VIII are allotted for presentation of the project work carried out by these 10 students, for the assessment of these 10 projects and for conducting their Viva -voce.

Total marks for the project: 100 Marks

Marking scheme for the assessment of project is as under.

Judging Criterion	Marks
Preparation of the Project proposal	05
Completion of project as per proposal submitted	05
Preparation of the Project Report	40
Bibliography : Reference quoted & used	10
Achievement of Objectives/goals	10
Report Presentation	20
Viva-Voce	10
TOTAL out of 100	100

— x x x x x x —

4