

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

M.D.

(Pharmacology)

Historical aspects : History of Pharmacology and Medicine.

General Pharmacology :-

General principles of drug action. Absorption, distribution and fate of drugs.
Mechanism of drug action. principles and methods.

Pharmacodynamics :- detail of systemic and local effects of drugs.

Autonomic nervous system

Cardiovascular system

Central nervous system

Endocrine system

Gastrointestinal system

Respiratory system

Antimicrobial drugs

Anticancer drugs

Autacoids

Pharmacogenetics :- Knowledge of the genetic factors that determine drug action and drug toxicity.

Pharmacometrics :- Experimental methods used to evaluate different types of drug action. Biostatistics.

Chemical and biochemical pharmacology:-

Chemical properties of drugs and chemical tests to detect and estimate drugs.
Biochemical effects of drugs and biochemical methods of drug testing and drug assay.

Pharmacotherapeutics :- Methods and details of the clinical evaluation of new drugs. recent advance :- Knowledge of the recent advances in drug research.

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PHARMACOLOGY
DEGREE OF MASTER OF SCIENCE IN PHARMACOLOGY
M. Sc. (MED.) IN PHARMACOLOGY

O.M.Sc. (MED – Pharmacology) :1

Any person who has taken the bachelor's degree in science with physics, chemistry botany zoology , of microbiology as principle if subsidiary subjects, or B.Pharm, B.D.S. or B.V.Sc. of this University or a degree of another University recognized as equivalent there to will be eligible for admission to the M.Sc. Course in Pharmacology , Medical Graduate will not be admitted for M.Sc. (Pharmacology).

A candidate for M.Sc. degree in Pharmacology will undergo a course of orientation for one and a half year (Three terms) to the satisfaction of the teacher in the following subjects :-

- (1) Human anatomy including Embryology and Normal Histology.
- (2) Human Physiology including Biophysics and Biochemistry.
- (3) Elementary Bio statistics.
- (4) Elementary Bacteriology
- (5) Principles of Pathology
- (6) Principles of Pharmacology .

The Course will include both theoretical lectures & Practical training.

O.M. Sc. (Med. Pharmacology) : 2

The candidate will be examined for the M. Sc. Part – I at the end of this courses in following four papers carrying 100 marks each. :-

Paper – I Human Anatomy including Embryology and Normal Hostology.

Paper – II Human Physiology including Biophysics and Biochemistry

Paper – III Elementary Bacteriology & Principles of Pathology.

Paper – IV Pharmacology and Bio statistics.

The passing in this examination in all the subjects will be compulsory before proceeding with M. Sc. Part – II Course Passing standard for this examination will be 50 % of total marks in each subject in theory only .

If a candidate fails in a subject or subjects, he will undergo a further training in the respective subject or subjects.

O.M. Sc. (Med. Pharmacology) : 3

- (i) Before being allowed to appear at the M. Sc. Part – II Examination each candidate will have to produce a certificate that he has attended a course in pharmacology at a recognized postgraduate center to the satisfaction of his teacher for four academic terms and received instruction both in theory and practicals.

- (ii) He will also submit a dissertation and not exceeding 2500 words consisting of
(1) a critical review of recent advance in some branch or theme of his subject or
(2) the results of his own study or investigation carried out by him under the guidance of a recognized teacher.
- (iii) He will also maintain a Journal duly certified by the teacher, in which all the work done by him is recorded.

O.M. Sc. (Med. Pharmacology) : 4

The M. Sc. Part – II examination shall be by papers, practicals and oral .There shall be three papers carrying 100 marks each and practicals and oral carrying a total of 300 marks.

THEORY EXAMINATION :- There shall be three papers each of 3 hours duration carrying 100 marks for M. Sc. Pharmacology as follows :-

Paper – I Basic and general aspects of pharmacology

Paper – II Systemic Pharmacology inclusive of experimental methodology and bio - statistics .

Paper – III Systemic pharmacology inclusive of clinical pharmacology.

PRACTICAL EXAMINATION

There shall be a practical Examination extending over not less than 2 days and not more than 4 days carrying 250 marks covering the techniques in Pharmacology and Biochemistry , and a viva Voce examination Carrying 50 marks.

O.M. Sc. (Med. Pharmacology) : 5: STANDARD OF PASSING.

To pass the examination , a candidate will required to obtain at least 50% of the marks in theory and 50% of the total marks in practicals and Oral taken together.

Those who passed the examination at one sitting and obtain less than 60% of the total marks be awarded Second Class; those who obtain more than 60% of total marks and less than 75% will be awarded First Class; those who obtain 75% of more of the total marks will be declared to have pass the examination with First Class Distinction.

O.M. Sc. (Med. Pharmacology) : 6

The examination shall be held twice a year.