

## **\*ORDINANCE - DOCTOR OF MEDICINE (M.D.)**

### **1. Eligibility Criteria for admission:**

- 1.1 A person who possesses any one of the following qualifications shall be eligible to join the course of Doctor of Medicine (M.D.):
  - (a) The MBBS Degree after completion of one year compulsory rotatory Internship of M M I M S R, Mullana (Ambala)
  - (b) The MBBS Degree after completion of one year compulsory Rotatory Internship of any other Medical College recognized by the Medical Council of India.
- 1.2 The admission to the Doctor of Medicine (M.D.) course shall be made on the basis of merit and securing at least 50% marks in the Postgraduate Entrance Test (PGET) to be conducted by MMU
- 1.3 Any other eligibility conditions will be as notified by the MMU/Medical Council of India from time to time.

### **2. The Period of Training:**

- 2.1 The period of training for obtaining the degree of Doctor of Medicine (M.D.) shall be three completed years including the period of examination.  
Provided that in case, student having a recognized two years Postgraduate Diploma course in the same subject, the period of training, including the period of examination shall be Two years.
- 2.2 All candidates joining the postgraduate training programme shall work as full time residents during the period of training; attending not less than 80% (Eighty percent) of the teaching sessions during each calendar year' and given full time responsibilities, assignments and participation in all facets of the educational process.

### **3. Examination Schedule:**

- 3.1 The examination for the degree of Doctor of Medicine (M.D.) shall be held twice a year in the months of June/July and October/November or on such other dates as may be decided by the Vice Chancellor on the recommendation of Dean Faculty of Medical Sciences.
- 3.2 Normally, the University shall conduct not more than two examinations in an academic year for any subject, with an interval of not less than 4 and not more than 6 months between the two examinations.
- 3.3 The last date by which admission forms and fees must reach the Controller of Examinations shall be fixed by Vice Chancellor from time to time.

### **4. Eligibility to appear in the examinations:**

- 4.1 A student who possesses the qualification laid down in Clause-1.1 and produces the following certificates signed by the Head of the Department concerned and countersigned by the Head of the College/Institution recognized by the University for M.D. Course where he/she received the training shall be eligible to appear in the examination:-
  - (i) of good character;
  - \*\***(ii) of having completed training for a period of not less than 36 months by the MBBS qualified students and 24 months in the case P.G Diploma holders in the subjects concerned in the College/Institute;
  - (iii) The thesis must have been submitted within three years of his joining the course and minimum three months before the commencement of theory examination;

**\*\***(iv) A Postgraduate student of postgraduate degree course in broad specialities/super specialities would be required to present one poster presentation, to read one paper at a national/state conference and to present one research paper which should be published/accepted for publication/ sent for publication during the period of his postgraduate studies so as to make him/her eligible to appear at the postgraduate degree examination.

4.2 A person who has completed the training in a recognized College/Institute as required in Clause-4.1 and has failed in an examination or having been eligible failed to appear in the examination may appear again in a subsequent examination as an ex-student without further training and without submitting a new thesis.

4.3 Application for admission to an examination shall be made on the prescribed form accompanied by requisite fee to reach the University by the date fixed for the purpose.

4.4 All candidates are required to submit three copies of their recent (not older than 3 months) passport size photographs out of which, two copies will be affixed on the admission-cum-roll No. card and one copy will be fixed on the admission form in the space provided for the purpose. All photographs will be duly attested by the same authority which attests the admission forms.

**£5. Minimum Pass Marks:**

The candidate shall be declared successful only when his/her Thesis has been accepted and has obtained minimum marks in the Theory papers/Practicals, as under:-

- (i) 40% Marks in each Theory paper and 50 % Marks cumulatively in all theory papers;
- (ii) 50 % Marks in clinical/practicals including oral examinations.

**6. Grace Marks:**

There shall be no grace marks.

**7. Publication of Result:**

- (a) The Board of Examiners shall send the result to the controller of Examinations for publication of the result of the examination.
- (b) On receipt of the result from the Board of Examiners, the Controller of Examination shall publish it as soon as possible. A candidate shall be declared successful only when he/she has passed the examination – Theory, practical/clinical including oral and his/her thesis has been accepted.

**8. Award of Degree:**

Each successful candidate shall be granted a Degree of Doctor of Medicine in one of the following specializations:-

- (i) MD, General Medicine
- (ii) MD, Paediatrics
- (iii) MD, Pharmacology
- (iv) MD, Dermatology, Venereology and Leprosy
- (v) MD, Microbiology
- (vi) MD, Anesthesiology
- (vii) MD, Respiratory Medicine
- (viii) MD, Radio-Diagnosis
- (ix) MD, Biochemistry
- (x) MD, Pathology
- (xi) MD, Community Medicine
- (xii) MD, Forensic Medicine

- (xiii) MD, Physiology
- (xiv) MD, Psychiatry
- (xv) MD, Radio-Therapy
- (xvi) MD, Anatomy

**9. Migration:**

Migration/transfer of students undergoing any postgraduate course/degree shall not be permitted.

**10. Scheme of Examination:**

The examination shall consist of (A) Thesis, (B) Theory papers, and (C) Clinical/Practical including Oral examinations:-

**A. Thesis**

- (i) Every student will be required to submit his plan of thesis to the Chairman of the concerned Post-Graduate Board of Studies within six months from the starting of the Course. Admission to the course can be cancelled if the candidate fails to submit his/her plan within the stipulated time. The delay, if any, may be condoned on genuine grounds by the Director/Principal on the recommendation of the Supervisor.  
After approval of the plan of thesis by the Board of Studies, it shall be sent to the Vice-Chancellor for acceptance
- (ii) Every candidate shall submit ten copies of thesis plan to the Chairperson of the concerned Board of Studies within six months from the date of admission.
- (iii) @Thesis shall be submitted to the University not earlier than 1 year from the date of approval of thesis plan and at least 6 months before the start of Theory and Clinical/Practical examination.
- (iv)
  - (1) The Thesis shall be typewritten on one side of the paper (size 11"x8½") with margins of 1½" on each side, bound, indicating on the outside cover its title and the name of the candidate. International reference style (Vancouver system) should be followed in the thesis
  - (2) Thesis must show a good academic standard, satisfactory literary presentation and format in all respects.
  - (3) The thesis shall embody the result of candidate's own research and/or experience and shall contain precise reference to the publications cited in the text.
  - (4) It should end with a summary embodying conclusions arrived at by the candidate.
  - (5) A certificate from the supervisor(s) testifying that the work done is genuine and done by the candidate himself/herself, has been done under his/her supervision and the technique and statistics mentioned in the thesis were undertaken by the candidate himself/herself;
- (v) Every candidate shall submit (through his/her HOD and Principal of the college) to the Controller of Examinations of the university
  - (a) 3 copies of his thesis;
  - (b) 3 copies of the original plan already submitted by him, at the time of registration, to the Controller of Examinations;
  - (c) Hindi version of Title of Thesis through the Head of his College/Institute, accompanied by:-
    - (i) Thesis evaluation fee as prescribed by the University from time to time.

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- (b) The internal examiner shall send only report to the University after evaluation of thesis and the evaluated copy will be deposited in the College library for reference of the students. The external examiner shall send report to the University after evaluation of thesis and also the evaluated copy of thesis to the University. The University shall keep two copies in the University Library for reference of the students.
- \*\***A candidate shall be allowed to appear for the Theory and Practical/Clinical examination only after the acceptance of the Thesis by the examiners.

**B. Theory (Total Marks: 100 X 4 = 400)**

- (i) There shall be four theory papers of 100 marks each & three hours each.
- (ii) Out of these one shall be based on the Basic Medical Sciences and one on Recent Advances as applicable to that subject.
- (iii) The Theory examination shall be held sufficiently earlier than the Clinical/Practical examination so that the answer books can be assessed and evaluated before the start of the Clinical/Practical and oral examinations.

**C. Clinical/Practical (300 Marks) and Oral (100 Marks) Total Marks 400**

- (i) Clinical examination for the subjects in Clinical Sciences shall be conducted to test the knowledge, skills and competence of the candidates for undertaking independent work as a specialist/teacher, for which candidate shall be examined on minimum of one long case and two short cases.
- (ii) Practical examination for the subjects in Basic Medical Sciences shall be conducted to test the knowledge, skills and competence of the candidate for making valid and relevant observations based on the

experimental/laboratory studies and his ability to perform such studies as are relevant to his subject.

- (iii) The Oral examination shall be aimed to assess the candidate's knowledge including recent advances, skill and competence about the subject, investigative procedures, therapeutic techniques and other aspects of the specialty which will form a part of the examination.
- (iv) A candidate will have to secure not less than 50% marks separately in each head for passing which shall include (B) theory and (C) Clinical/Practical examination including oral (viva-voce) examination.

## 11. **Group of Subjects**

The following shall be the various groups for the Doctor of Medicine examination:-

### **Group A: (Clinical subjects)**

1. General Medicine
2. Tuberculosis and Respiratory Medicine/Pulmonary Medicine
3. Radiotherapy
4. Radio-diagnosis
5. Paediatrics
6. Community Medicine
7. Psychiatry
8. Dermatology, Venereology and Leprosy
9. Anaesthesiology

### **Group B: (Basic subjects)**

1. Anatomy
2. Physiology
3. Biochemistry
4. Pharmacology
5. Pathology
6. Microbiology
7. Forensic Medicine

## 12. **The following shall be the titles of the four papers in each subject:**

### **Group A: (Clinical Subjects)**

#### **General Medicine**

- Paper-I : Basic Sciences as related to Medicine
- Paper-II : Applied Pathology and Microbiology
- Paper-III : Principles of Medicine
- Paper-IV : Practice of Medicine including recent advances

#### **Respiratory Medicine**

- Paper-I : Basic Sciences as related to Tuberculosis and Respiratory Diseases
- Paper-II : Principles and Practice of Tuberculosis (Pulmonary and Extra Pulmonary)
- Paper-III : Principles and Practice of Non-Tubercular Respiratory Diseases
- Paper-IV : Recent advances as related to Tuberculosis and other Respiratory Diseases

### **Radiotherapy**

- Paper-I : Basic Sciences applied to Radiotherapy (this will include Radiation Physics, Radiation Biology, Pathology and other related subjects.)
- Paper-II : Principles and practice of Radiotherapy
- Paper-III : Clinical Radiotherapy, Chemotherapy and Radioisotopes (Clinical Oncology)
- Paper-IV : Recent advances in Clinical Oncology as applied to Radiotherapy and Chemotherapy

### **Radio diagnosis**

- Paper-I : Basic Sciences and Physics as applied to Radio-diagnosis
- Paper-II : Principles and Practice of Radio-diagnosis
- Paper-III : Radio-diagnosis as related to Pathology
- Paper-IV : Recent advances in Radiodiagnosis including nuclear medicine

### **Paediatrics**

- Paper-I : Basic Sciences as related to Paediatrics
- Paper-II : Principles and Practice of Paediatrics
- Paper-III : Neonatology and Community Paediatrics
- Paper-IV : General Paediatrics including recent advances

### **Community Medicine**

- Paper-I : History of Public Health, concepts in Community Medicine and Epidemiology
- Paper-II : Health Services management
- Paper-III : Nutrition, Environmental Health and Demography
- Paper-IV : Mental Health and Health Technology.

### **Psychiatry**

- Paper-I : Basic Sciences related to Psychiatry, Neuro-Anatomy, Neurophysiology, Psychopharmacology and Clinical and Social Psychology
- Paper-II : Clinical Psychiatry
- Paper-III : Psychiatric Theory and Psychiatric specialities
- Paper-IV : Neurology and General Medicine as related to Psychiatry and Recent advances in Psychiatry

### **Dermatology, Venereology and Leprosy**

- Paper-I : Basic Sciences as related to Dermatology, Venereology and Leprosy
- Paper-II : Principles and practice of Dermatology, Venereology and Leprosy
- Paper-III : Histopathology, Leprology and Venereology
- Paper-IV : Recent advances in Dermatology, Leprosy & Venereology and general medicine as related to Dermatology

### **Anaesthesiology**

- Paper-I : Basic Sciences as applied to Anaesthesiology (The relevant

portions of Anatomy, Physiology, Biochemistry, Pathology, Pharmacology and Physics as related to Anaesthesiology)

- Paper-II : Clinical Sciences as applied to Anaesthesiology (Relevant topics in Medicine, General Surgery, Obstetrics and Gynaecology, Otorhinolaryngology, Orthopaedics, Ophthalmology and Psychiatry). This will include Pre-operative assessment and post-operative care.
- Paper-III : Principles and practice of Anaesthesiology
- Paper-IV : Recent advances in Anaesthesiology including principles of Resuscitation, Intensive care Therapy, pain management and Anesthesia in relation to subspecialities.

### **Group B: (Basic Subjects)**

#### **Anatomy**

- Paper-I : Gross Human Anatomy
- Paper-II : Embryology, Genetics and Histology
- Paper-III : Neuro-anatomy
- Paper-IV : Applied Anatomy including radiological anatomy and recent advances.

#### **Physiology**

- Paper-I : Applied Physiology including recent advances
- Paper-II : General Principles of Physiology and other allied disciplines (Bio-Chemistry, Histology and Statistics)
- Paper-III : Systematic Physiology comprising Neurophysiology and Endocrinology.
- Paper-IV : Systematic Physiology excluding Neurophysiology and Endocrinology.

#### **Biochemistry**

- Paper-I : Clinical Biochemistry
- Paper-II : General Biochemistry, biochemical techniques & Biostatistics
- Paper-III : Metabolism, Endocrinology and inborn errors of metabolism
- Paper-IV : Molecular Biology, Nutrition, Immunochemistry and Biochemistry of Tissues.

#### **Pharmacology**

- Paper-I : Clinical Sciences as related to Pharmacology
- Paper-II : General Pharmacology including Chemotherapy and Therapeutics
- Paper-III : Experimental Pharmacology, Bioassay and Statistics
- Paper-IV : Applied Pharmacology and Toxicology including recent Advances

#### **Pathology**

- Paper-I : General Pathology, Pathophysiology, Immunopathology and Cytopathology
- Paper-II : Systemic Pathology
- Paper-III : Haematology, Transfusion Medicine (Blood Banking) and Laboratory Medicine
- Paper-IV : Recent advances and applied aspects.

**Microbiology**

Paper-I	:	General Principles of Microbiology and Immunology
Paper-II	:	Systematic Bacteriology and Mycology
Paper-III	:	Parasitology and Virology
Paper-IV	:	Recent Advances in Microbiology

**Forensic Medicine:**

Paper-I	:	Basic sciences and allied subjects as applicable to Forensic Medicine
Paper-II	:	Clinical forensic medicine and medical jurisprudence
Paper-III	:	Forensic Pathology and Toxicology
Paper-IV	:	Applied aspects of clinical disciplines, forensic sciences and recent advances in forensic medicine and forensic psychiatry.

Note: There are no water-tight compartments and there can be an over-lapping of questions from one paper to another.

**13. Board of Examiners**

- 13.1 The examination shall be conducted by a Board of four examiners who will be appointed by the university on the recommendation of the concerned P.G. Board of Studies.
- 13.2 All the Postgraduate Examiners shall be University recognized Postgraduate Teachers holding recognized postgraduate qualifications in the subject concerned.
- 13.3 For all Postgraduate examinations the minimum number of Examiners shall be four out of which at least two (50%) shall be External Examiners who shall be invited from other recognized Universities. If any examiner does not report/or accept examinership, the Dean Faculty of Medical Sciences shall be entitled to make alternative arrangement and appoint another eligible examiner (External or Internal) so that the examination could be conducted in time.
- 13.4 Under exceptional circumstances examination may be conducted with 3 (three) examiners provided two of them are external and Medical Council of India is intimated with the justification of such examination and the result shall be published with the approval of Medical council of India.
- 13.5 In the event of there being more than one centre in one city the external examiners at all the centres in that city shall be the same. Where there is more than one centre of examination the University shall appoint a Supervisor to co-ordinate the examination on its behalf.
- 13.6 The appointing authorities shall follow the guidelines regarding appointment of examiners as prescribed by the Medical Council of India from time to time i.e
  - (i) The concerned Post Graduate Board of Studies shall recommend a Panel of four External Examiners, out of which any two will be appointed by the Vice Chancellor.
  - (ii) The concerned Post Graduate Board of Studies shall also recommend the names of two Internal Examiners in which Head of the concerned department will be a regular Internal Examiner (Convener) and the second Internal Examiner shall be appointed by rotation and seniority from amongst the eligible Teachers available in the department who possess at least 5 years teaching experience as Asstt. Professor / Lecturer and hold the rank of Associate Professor or above.

- (iii) Theory Paper I & II will be set by External Examiners and III & IV by Internal Examiners. There will be a Moderator who will moderate the theory papers and ensure that there is no duplication of questions and papers have been set according to the syllabus.
- (iv) Theory Paper I & II shall be evaluated by the External Examiners and Theory Paper III & IV by the Internal Examiners.
- (v) The same set of four Examiners (2 External and 2 Internal) will conduct the Clinical/Practical examination and evaluate the theory papers as stated above.
- (vi) Ordinarily there will be same set of Examiners for regular and supplementary examinations.
- (vii) The Head of the Department (Convener) will forward the result prepared by the Board of Examiners to the Controller of Examinations immediately after the examination is over who in turn will declare/publish the result at the earliest (after ensuring that the thesis of the concerned students have already been accepted by the thesis examiners)

**14. Number of Candidates**

The maximum number of candidates to be examined in Clinical/practical and Oral on any one day shall not exceed eight.

**15. General**

Notwithstanding the integrated nature of this course which is spread over more than one academic year, the Ordinance in force at the time a student joins the course shall hold good only for the examination held during or at the end to the training and nothing in this Ordinance shall be deemed to debar the University from amending the Ordinance and the amended Ordinance, if any, shall apply to all students whether old or new.

**16. Syllabus:**

General guidelines of Syllabus will be as prescribed by MCI from time to time. However, any questions especially on recent advances can be given in the paper or asked during clinical/practical / oral examination.

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\* [Approved by the Academic Council vide Res. No. 9(1) dated 19.12.2009 and Board of Management vide Res. No. 10(1) dated 21.12.2009.

\*\* Approved vide AC Res. No. 8 dated 7.2.2011 and BOM Res. No. 12 dated 19.2.2011. w.e.f. 2010-11.

@ Approved vide Academic Council Res. No. 8 dated 22-3-2012 and Board of Management Res No. 6 dated 14-5-2012. (w.e.f. the session 2012-13)

£ Approved vide AC Res. No. 22 dated 17-7-2015 and BOM Res. No. 11 dated 17-7-2015.