



UNIVERSITY OF DELHI
FACULTY OF MEDICAL SCIENCES

6th Floor, V.P.C.I. Building, Delhi - 110 007

Web-site: www.fmsc.ac.in, E-mail: dean_medical@du.ac.in

Phone: 2766 2208, Fax: 2766 2763

FMDS/248/006/BRS-AT(Ph.D.)/2016/

01.11.2016

Ph. D. ENTRANCE TEST FOR ADMISSION TO Ph.D. PROGRAMME UNDER FACULTY OF MEDICAL SCIENCES, UNIVERSITY OF DELHI-2016-2017

Ref.: Advertisement for admission to Ph.D. programme under Faculty of Medical Sciences dated 25.5.2016

It is notified for all concerned that Ph.D. Entrance Test for admission to Ph.D. Programme under the Faculty of Medical Sciences, University of Delhi has been scheduled as follows:-

1. **Date of Ph.D. Entrance Examination:** 2nd December, 2016 (Friday).
2. **Time:** 03:00 pm to 05:00 pm
3. **Venue:** S.G.T.B. Khalsa College (North Campus), University of Delhi, Delhi-110007.
4. **Reporting Time:** 02:00 pm

A. SCHEME OF ENTRANCE EXAMINATION:

Paper-I: Common Paper: Total Marks 50.

There shall be 50 MCQ carrying one marks each.

There shall be no negative marking.

Paper-II: Department-wise: Total Marks 30.

There shall be short answer-questions (SAQ) carrying 30 marks.

The SAQ will be from the Department concerned under which the candidate has applied for Ph.D. registration.

Paper-III: Viva-Voce (Interview): Total marks 20.

- ❖ A candidate is required to obtain 50% marks in aggregate in written examination i.e. Paper-I and Paper-II to be called for interview.
- ❖ The Viva-Voce (interview) will be conducted by the respective Departmental Research Committee (DRC). The viva-voce (Interview) will be a structured interview.
- ❖ The final result / merit will be prepared based on the aggregate marks of written test and viva-voce (interview) of the candidate. The result of the Ph.D. Entrance Test will be uploaded in the Faculty website www.fmsc.ac.in



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B. SYLLABUS

PAPER-I (Common Paper)

i) Microbiology

General Medical Microbiology, Methods in Microbiology & Biotechnology, Immunology, Cellular Fundamental Processes, Organization of structure and functions of prokaryotic and eukaryotic cells, Genetic Engineering, Biosafety and Bioethics, Biostatistics and Computational Biology, Bioinformatics.

ii) Pharmacology

General Pharmacology, Autonomics Pharmacology, CNS Pharmacology, Cardiovascular Pharmacology, Drugs acting on blood and blood forming organs, Renal Pharmacology, Autacoids, Reproductive Pharmacology, Endocrine Pharmacology, Chemotherapy, Drugs affecting gastrointestinal system, Drugs affecting respiratory system, Immunomodulators, Clinical Pharmacology, Miscellenious topics, Pharmacometrics, Toxicology.

iii) Physiology

General Physiology, Blood, Nerve and Muscle Physiology, Digestive syste/Gastrointestinal Tract (GIT), Cardiovascular System (CVS), Respiratory system, Excretory system, Endocrinology, Reproductive system, Nervous system, Special Senses, Integrated Physiology – skin and body temperature regulation, sports, exercise, yoga and meditation physiology, physiology of aging, free radical antioxidants

iv) Anatomy

Medical Bio-statistics, Waste Management, National Health Programmes, Laboratory Techniques, Organ donation/body donation, Genetics & Molecular Biology, Immunology, Cell Biology, Microscopy, Forensic, radiological & Comparative Anatomy, Reproductive Biology.

v) Bio-Chemistry

Molecular Biology, Immunology, Cell Biology, Clinical, Medical Biostatistics, Biomedical Waste Management, National Health Programs Cancer, Nutrition, Techniques



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PAPER-II

i) Obstt. & Gynae.

Basics of Anatomy of Human Reproductive Tract, Basic of Physiology of Human Reproductive Tract, Basic knowledge of genetics, immunology, biochemistry molecular biology, microbiology, Basic knowledge of Reproductive Endocrinology, Bio statistics / Bioinformatics, Bioethics & Intellectual property rights, Research Methodology, protocol preparation, Bio safety / waste management.

ii) Paediatrics

Growth & Development, Behaviour, Nutrition, Social Pediatrics, Immunization, Infectious Diseases, Emergencies in Pediatrics, Research Methodology, Normal Newborn, Diseases of Newborn, Systemic Pediatrics.

iii) Pulmonary Medicine

Basic anatomy of the airways and the lungs, Blood supply and venous drainage of lungs.

Properties of gases, Mechanics of respiration, Regulation of respiration., Arterial blood gas analysis and interpretation, Pathology of the respiratory system, Obstructive lung diseases including asthma and COPD, Chest wall disorders, Infective including Tuberculosis, Malignancies, Introduction to Biostatistics & Research Methodology, Equipment – Pulse oximeters, ABG machines, Spirometers, Nebulizers-ultrasonic and jet, Polysomnography systems, Bronchoscopy, Basic ICU practices, Oxygen delivery devices for different patients with cardiopulmonary diseases, Ventilators-Non Invasive & Invasive

iv) Microbiology

General Medical Microbiology, Methods in Microbiology & Biotechnology, Immunology, Cellular Fundamental Processes, Organization of structure and functions of prokaryotic and eukaryotic cells, Genetic Engineering, Biosafety and Bioethics, Biostatistics and Computational Biology, Bioinformatics

v) Pharmacology

General Pharmacology, Autonomics Pharmacology, CNS Pharmacology, Cardiovascular Pharmacology, Drugs acting on blood and blood forming organs, Renal Pharmacology, Autacoids, Reproductive Pharmacology, Endocrine Pharmacology, Chemotherapy, Drugs affecting gastrointestinal system, Drugs affecting respiratory system, Immunomodulators, Clinical Pharmacology, Miscellenious topics, Pharmacometrics, Toxicology.



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vi) Physiology

General Physiology, Blood, Nerve and Muscle Physiology, Digestive system/Gastrointestinal Tract (GIT), Cardiovascular System (CVS), Respiratory system, Excretory system, Endocrinology, Reproductive system, Nervous system, Special Senses, Integrated Physiology – skin and body temperature regulation, sports, exercise, yoga and meditation physiology, physiology of aging, free radical antioxidants

vii) Anatomy

General Anatomy, Embryology, Histology, Regional Anatomy, Neuroanatomy, Clinical Anatomy, Forensic, Radiological & Comparative Anatomy, Genetics, Recent Advances, Laboratory Techniques

viii) Bio-Chemistry

Biomolecules and Physical Chemistry, Bioenergetics, enzymes, Biological oxidation, Extracellular and Intracellular messengers, Intermediary metabolism & Inborn errors of metabolism, Oxygen transporters, Heme metabolism, Nucleic acid metabolism, Gene expression and recombinant DNA Technology, Basic Immunology, Gastrointestinal Pathobiochemistry

ix) Medicine

Basics of etiology and Patho-physiology of common medical conditions under various sub-specialities of Medicine.

C. List of candidates (Non-Medical) applied for admission to Ph.D. programme under the Faculty of Medical Sciences, University of Delhi for the session 2016-2017:-

S. No.	Name of the Department	Name of the Applicant	Qualification / Percentage
1.	Anatomy	N. Esakkiammal	M.Sc. (Medical Anatomy) 64%
		Sugna Choudhary	M.Sc. (Medical Anatomy) 59%
		Anjali	M.Sc. (Medical anatomy) RA
		Pinki Rai	M.Sc. (Anatomy) 69.65%
2.	Bio-Chemistry	Pooja Singh	M.Sc. (Life Sc.) 74.8%
		Nikhil Khurana	M.Tech. (Biotech.) 66.84%
		Peeyush Prasad	M.Sc. (Biomedical Sc.) 66.6%
		Pragati Aggarwal	M.Sc. (Biochemistry) 74.56%
		Neha Sahu	M.Sc. (Biotech.) 80%
		Sadaf Khan	M.Sc. (Biochemistry) 6.40 (CGPA)



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		Harendra Kumar Shah	M.Sc. (Biotech.) 56.16%
		Isha Jain	M.Sc. (Microbial Technology) 89.5%
		Mohit Thalquotra	M.Sc. (Biochemistry) 60%
		Mahesh Kumar	M.Sc. (Biochemistry) Appearing
		Bhagwan Singh Meena	M.Sc. (Biochemistry) Appearing
		Rajesh Solanki	M.Sc. (Biochemistry) Appearing
		Debleena Guin	M.Sc. (Biotech.) 82.22%
		Nisha	M.Sc. (Medical) 63%
		Manish Bhardwaj	M.Sc. (Biochemistry) 69.5%
3.	Medicine	Parul Varshney	M.Sc. (Biotech.) 74.8%
		Rajan Kr. Singh	M.Sc. (Clinical Research Management) 6.88 (CPGA)
		Pinky Shukla	M.Phil (Biochemistry) 75%
		Jitendra Kumar	M.Sc. (Biochemistry) 68.3%
		Sumeet Bask	M.Sc. (Clinical Research Management)
		Pratishtha (Deptt. of Cardiology)	M.Sc. (Clinical Research & Regulatory Affairs) 72%
4.	Microbiology	Sandeep Kaur	M.Sc. (Anthropology), R.A.
		Saurabh Yadav	M.Sc. (Anthropology), R.A.
		Sahiba Jaggi	M.Sc. (Microbial Technology) 86.6%
		Saugata Roy	M.Sc. (Biotech.) 59%
		Tanusri Nandi	M.Sc. (Biotech.) 58.2%
		Kamaljeet	M.Sc. (Microbiology) 57.09%
		Thakur Datt	M.Sc. (Microbiology) 60%
		Sunil Bhargaw	M.Sc.
		Sahanawaj	M.Sc. (Microbiology) 64.45%
		Ashutosh Singh	M.Sc. (Bio Medical) 62%
		Neha Sahu	M.Sc. (Biotech.) 80%
		Kamal Shrivastava	M.Sc. (Biotech.) 70.6%
		Chanchal Kumar	M.Sc. (Biotech.) 70.2%
		Garima Sinha	M.Sc. (Microbiology) 68%
		Jeetendra Kumar Sah	M.Sc. (Microbiology) 59%
		Bhavesh Kumar Jain	M.Sc. (Microbiology) 57.25%
		Harish Sharma	M.Tech. (Biotech.) 70.45%
		Amit Sharma	M.Sc. (Microbiology) 71%
5.	Obst. & Gynae.	Tsering Palmo	M.Sc. (Zoology) R.A.
		Mohammad Aasif Khan	M.Sc.(Biosciences)60.54%
6.	Paediatrics	Jyotsna Gaur	M.Phil. (Microbiology) 74%
7.	Pharmacology	Suresh Kumar Thokchom	M.Pharma (Pharmacology) 83.1
		Anshul Tanwar	M.Pharma (Pharmacology) 63.8
		Pankaj Verma	M.Pharma (Pharmacology) 62.29
		Md. Akram Minhaj	M.Pharma (Pharmacology) 68.5



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8.	Physiology	Megha Saxena	M.Sc. (Physiology) 58%
		Shikha Jaiswal	M.Sc. (Medical) 61.33%
9.	Pulmonary Medicine	Deepak Kumar	M.Sc. (Environmental) 72%
		Mrigakshi Gupta	PG (Diploma) P.M. 65.8%
		Kamal Singh	M.Phil. (Biotech.) 62%

Note: In case of any discrepancy, query, the candidate may inform to the Dean, Faculty of Medical Sciences or the Joint Registrar, Faculty of Medical Sciences through e-mail; dean_medical@du.ac.in and drfmisc@gmail.com.

Sd/-
(Henry H. Baa)
Joint Registrar (Medical)
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