



KING EDWARD MEDICAL UNIVERSITY LAHORE
OFFICE OF THE CONTROLLER OF EXAMINATIONS

No: 4748/CE

Dated: 23-09-2017

Subject: **APPROVAL OF PATTERN OF QUESTION PAPER FOR MS/MD/MDS JCAT EXAMINATION**

Respected Sir,

It is submitted that the MS/MD/MDS JCAT written Examination is going to be held on Wednesday, 18-10-2017.

In this regard, as directed the following pattern of question paper may please be approved for preparation of paper and communicate to candidates through University website.

Pattern of Question Paper

MD/MS (Common Paper)

➤ 125 MCQ's "Single best answer"

- 1. Basic Sciences** **55 MCQ's Questions**
- a. Anatomy** **17 MCQ's**
- b. Physiology & Biochemistry** **18 MCQ's**
- c. Pathology** **15 MCQ's**
- d. Pharmacology** **05 MCQ's**
- 2. General Medicine & Allied Specialties** **30 MCQ's Questions**
- a. Medicine** **20 MCQ's**
- b. Paediatric Medicine** **10 MCQ's**
- 3. General Surgery & Allied Specialties** **40 MCQ's Questions**
- a. Surgery** **20 MCQ's**
- b. Obstetrics & Gynaecology** **10 MCQ's**
- c. Ophthalmology** **05 MCQ's**
- d. ENT** **05 MCQ's**

MDS Program

➤ 125 MCQ's "Single best answer"

1. Basic Sciences

55 MCQ's Questions

- | | |
|------------------------------|----------|
| a. Anatomy | 17 MCQ's |
| b. Physiology & Biochemistry | 18 MCQ's |
| c. Pathology | 15 MCQ's |
| d. Pharmacology | 05 MCQ's |

2. Dental Surgery & Allied Specialties 70 MCQ's Questions

Submitted for your kind approval, please.


(Dr. Khalid Mahmood Cheema)
Controller of Examinations

The Vice Chancellor, KEMU, Lahore

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**MD/MS PATTERN OF QUESTION PAPER (MCQ's) FOR JCAT EXAMINATION TO BE
HELD ON 18TH OCTOBER, 2017**

Sr. No.	CONTENTS	No. of MCQs
BASIC SCIENCES		
a. Anatomy		
1.	General Anatomy	01
2.	General Histology	01
3.	General Embryology	01
4.	Upper Limb	02
5.	Lower Limb	02
6.	Thorax	01
7.	Special Histology	01
8.	Special Embryology	01
9.	Pelvis	01
10.	Abdomen	02
11.	Head + Neck	02
12.	CNS	02
TOTAL		17
b. Physiology		
1.	Basic and Cell Physiology	01
2.	Blood Physiology	01
3.	Nerve and Muscle Physiology	01
4.	CVS / Respiratory Physiology	01
5.	Skin + Body Temperature Regulate	01
6.	Nervous System / Special Senses	01
7.	Kidney & Body Fluids	01
8.	Endocrinology / Reproduction	01
9.	GIT	01
TOTAL		09
b. BIOCHEMISTRY		
1.	Biochemistry of the Cell, Cell Membrane Phenomenon, Water, pH and Buffers	01
2.	Chemistry of Carbohydrates	01
3.	Chemistry of lipids	01
4.	Chemistry of proteins & Amino Acid : Plasma Proteins including Immunoglobulins	01
5.	Chemistry of Nucleotides and Nucleic Acids	01
6.	Enzymes	01
7.	Vitamins	01
8.	Nutrition / Minerals and Trace Elements	01
9.	Heme Metabolism, Prophyrias, Hemoglobin & Myoglobin, Hemoglobinopathies	01
TOTAL		09

	c. PATHOLOGY	
	i. General Pathology & Microbiology	
1.	General Bacteriology / Special Bacteriology	01
2.	Parasitology	01
3.	Virology / Mycology	01
4.	Cell as a unit of Health & Disease / Cellular Responses to stress and toxic insults: Adaptation, Injury & Death	01
5.	Inflammation and Repair / Diseases of Immune System	01
6.	Haemodynamic disorders, Thrombo-embolic Disease & Shock	01
7.	Neoplasia	01
8.	Genetic Disorders / Infectious Disease / Environmental and Nutritional Diseases / Diseases of infancy and Childhood	01
	TOTAL	08
	ii. Special Pathology	
9.	Blood Vessels / Heart / Diseases of White Blood Cells / RBCs Thymus / Spleen / Lymph Node	01
10.	GIT / Liver & Biliary Tract / Pancreas	01
11.	Lung / Head & Neck	01
12.	Kidney & Bladder / Male Genital System / Female Genital System	01
13.	Breast / Endocrine	01
14.	CNS / Peripheral Nerves / Eye	01
15.	Bones, Joints, Soft Tissue	01
	TOTAL	07
	d. PHARMACOLOGY	
1.	General Pharmacology	01
2.	Autonomic Nervous System (ANS) / Central Nervous System (CNS)	01
3.	Cardio Vascular System (CVS) / Endocrinology & Blood	01
4.	Respiratory System + GIT + Liver	01
5.	Chemotherapy, Autacoid & Prostaglandins	01
	TOTAL	05
	GENERAL MEDICINE & ALLIED SPECIALTIES	
	a. Medicine	
1.	Respiratory System	02
2.	CVS	02
3.	CNS	02
4.	GIT / Liver	02
5.	Renal	01
6.	Haematology	01
7.	Endocrine	02
8.	Diabetes	01
9.	Rheumatology	01
10.	Fluid Elect.	02
11.	Psychiatry	01
12.	Dermatology	01
13.	Infections	02
	TOTAL	20

b. Paediatric Medicine		
1.	Nutrition / Growth & Development / IRMNCH & Nutrition (IMNCI)	01
2.	Neonatology	01
3.	Infections	02
4.	Respiratory	01
5.	Neurology / Psychiatry	01
6.	Cardiology / Haem-oncology	01
7.	Nephrology / Endocrinology	01
8.	Gastro-Hepatology	01
9.	Genetics	01
TOTAL		10
GENERAL SURGERY & ALLIED SPECIALTIES		
a. Surgery		
1.	Principles of Surgery	02
2.	Trauma	02
3.	Perioperative Workup & Care	02
4.	Breast and Endocrine	02
5.	Genitourinary	02
6.	Hepatobiliary	02
7.	Vascular	01
8.	Hernia	01
9.	GIT	02
10.	Elective Orthopedic	01
11.	Skin	01
12.	Miscellaneous	02
TOTAL		20
b. Obstetrics		
1.	Introduction / Obstetrics History Taking and Examination / Conception, Implantation and Development of Placenta, Fetal Circulation, Abnormalities of Placenta	01
2.	Foetal Skull and Bony Pelvis / Diagnosis of Pregnancy / Physiology Changes Associated with Pregnancy	01
3.	Ante-natal Care / Early Pregnancy Loss and its Management (Abortions) / Physiology of Labour	01
4.	Mechanism of Labour / Management of Labour / Complications of 3 rd Stage of Labour	01
5.	Abnormal Labour e.g. Prolonged Labour / Obstructed Labour / Pre-term Labour / Induction of Labour	01
TOTAL		05
b. Gynecology		
6.	Introduction / Anatomy of Female i. Genital Organs ii. Development of Female Genital Organs Puberty and Adolescence	01
7.	Ovulation and Its Clinical Importance / Normal Menstruation / Menstrual Abnormalities	01
8.	Gynaecological History Taking and Examination / Minor Gynaecological Operative Procedures / Amenorrhoea	01
9.	Infertility / Contraception / Ectopic Pregnancy	01
10.	Trophoblastic Tumours / Vulval Lesions / Tumours of Vagina	01
TOTAL		05

c. Ophthalmology		
1.	Orbit, Lids, Conjunctiva	01
2.	Pupil and Visual Pathway, Lacrimal Apparatus, Therapeutics and Vitamin A	01
3.	Uveal Tract, Lens, Glaucoma	01
4.	Vitreo – Retina, Optic Nerve, Injuries	01
5.	Squint and Amblyopia, Errors of Refraction, Systemic Disease	01
TOTAL		05
d. E.N.T		
1.	Ear	02
2.	Nose	02
3.	Throat	01
	1. Conductive Hearing Loss 2. SNHL 3. Otosclerosis 4. Meniere's Disease 5. Vertigo 6. Tinnitus 7. DNS 8. Rhinitis – VMR, Allergic Rhinitis, Atrophic Rhinitis, Medicamentosa 9. Sinusitis 10. CSOM 11. Facial Nerve Palsy 12. Esophagoscopy 13. Bronchoscopy 14. Naso Pharyngeal Carcinoma 15. Epistaxis 16. Nasal Polyps 17. Tympanoplasty 18. Tonsil + Adenoid 19. Angiofibroma 20. Audiologic Assessment = PTA, Impedance, Tuning Fork 21. CA Larynx 22. Lump in Neck 23. Solitary Nodule Thyroid 24. Stridor 25. Retropharyngeal Abscess, Peritonsillar Abscess, Para Pharyngeal Abscess 26. Plummer Vinson Syndrome 27. Radiology 28. Instruments 29. Tracheostomy and Airway Management 30. Foreign Bodies in ENT 31. Anatomy of Throat 32. Oral Cavity Lesions 33. Peritonsillar Abscess 34. Diphtheria 35. Obstructive Sleep Apnea Syndrome 36. Congenital Lesions of Larynx 37. Laryngeal Infections 38. Malignant Laryngeal Lesions 39. Laryngeal Paralysis 40. Acute Mediastinitis 41. Caustic Ingestion 42. Deep Neck Space Infections 43. Dysphagia	
TOTAL		05

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BASIC SCIENCES

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Sr. No.	CONTENTS	No. of MCQs
a. Anatomy		
1.	General Anatomy	04
2.	Embryology	03
3.	Head & Neck	06
4.	Histology	04
TOTAL		17
b. Physiology & Biochemistry		
1.	Cell Physiology	02
2.	Nerve and Muscle Physiology	02
3.	Blood Physiology	02
4.	Systemic Physiology	03
5.	Cell Biochemistry	02
6.	Enzymes & Vitamins	02
7.	Proteins & Amino Acids	02
8.	Carbohydrates & Lipids	03
TOTAL		18

c. GENERAL PATHOLOGY		
1.	Cell Injury	02
2.	Inflammation	02
3.	Healing & Repair	02
4.	Hemodynamics	02
5.	Immunology	02
6.	Neoplasia	03
7.	Microbiology	
TOTAL		15
d. PHARMACOLOGY		
1.	General Pharmacology	02
2.	Dental Pharmacology	03
TOTAL		05
DENTAL SURGERY & ALLIED SPECIALTIES		
1.	Oral Histology	05
2.	Oral Pathology	05
3.	Dental Materials	10
4.	Periodontology	05
5.	Oral Medicine	05
6.	Oral & Maxillofacial Surgery	10
7.	Operative Dentistry	10
8.	Prosthodontics	10
9.	Orthodontics	10
TOTAL		70



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Last Date to Apply:

20-01-2020 to 03-02-2020 (with single fee â¬ Rs.3000/-)

04-02-2020 to 10-02-2020 (with Double fee â¬ Rs.6000/-)

JCAT Examination Date:

Sunday, 15th March, 2020 at 09:00 AM

Venue:

Examination Halls, University of Punjab, Wahdat Road Lahore

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