

# 2<sup>nd</sup> Professional M.B.B.S (2019-Batch)

**PATHOLOGY (PAPER CODE: PAPER I – 201041N)**

**TIME: - 3 HOURS**

**Paper – I**

**Full Marks (100 Marks)**

Paper I shall contain question from the following topics:-

**(1) GENERAL PATHOLOGY**

- (a) General consideration – Introduction, Disease, Hereditary, Environmental Malformation, Death.
- (b) Inflammation & Repair.
- (c) Disturbances of nutrition – Progressive & retrogressive change.
- (d) Degeneration: Necrosis, Disturbances of circulation Ischemia, Hyperemia of circulation, Gangrene, Thrombosis, Haemorrhage, Embolism, Shock & Edema.
- (e) Sarcoidosis
- (f) Pigments & Pigmentation Haemosiderosis, Hemochromatosis, Jaundice, Prophyryns & Porphyrin.
- (g) Tumours/ Neoplasia.
- (h) The Collagen diseases.
- (i) Pathological change due to radiation
- (j) Genetic Disorders.

**(2) SYSTEMIC PATHOLOGY**

**(a) C.V.S.**

- (i) Rheumatic diseases of the heart
- (ii) Bacterial endocarditis
- (iii) Coronary artery diseases
- (iv) Congenital heart diseases
- (v) Chronic Valvular diseases
- (vi) Myocardial lesions
- (vii) Pericardial lesions
- (viii) Heart failure
- (ix) Atherosclerosis
- (x) Aneurysms
- (xi) Hypertension
- (xii) Cardio vascular syphilis

**(b) KIDNEY / LOWER URINARY TRACT**

- (i) Glomerulonephritis
- (ii) Nephrosis
- (iii) Renal T.B.

- (iv) Pyelonephritis & cystitis
- (v) Hydronephrosis, Tumours & Cysts
- (vi) Urinary Calculi

(c) **RESPIRATORY SYSTEM**

- (i) B bronchitis, Bronchial asthma, Bronchiectasis.
- (ii) Pneumonia
- (iii) Pneumoconiosis
- (iv) Abscess & Gangrene
- (v) Pulmonary T.B.
- (vi) Atelectasis & Collapse
- (vii) Emphysema
- (viii) Tumour of lungs & disease of Pleura.

(d) **LIVER & BILLIARY PASSAGE**

- (i) Hepatitis & hepatic necrosis, cirrhosis
- (ii) Tumours of Liver
- (iii) Gall bladder
- (iv) Cholecystitis & Gall stone

(e) **G.I.T**

- (i) Gastritis & Ulcers of GIT
- (ii) Carcinoma of Stomach
- (iii) Chronic ulcerative
- (iv) Regional enteritis
- (v) Appendicitis
- (vi) Carcinoid Tumour
- (vii) Hirshesprung's diseases

(f) **PANCREAS**

- (i) Pancreatitis
- (ii) Fibrocystic disease: Muco- viscidosis
- (iii) Tumours of Pancreas
- (iv) Diabetes Mellitus

(g) **MALE & FEMALE REPRODUCTIVE SYSTEM**

- (i) Tumour of testis
- (ii) Benign Hypertrophy and ovary including cysts
- (iii) Tumours of uterus and ovary including cysts
- (iv) Hydatiform mole, Chorioepithelioma & Salpingitis
- (v) Teratoma
- (vi) Blastoma

(h) **THE BREAST**

- (i) Cystic hyperplasia
- (ii) Sclerosing adenosis
- (iii) Cysts & Tumours of Breast

**(i) ENDOCRINE**

- (i) Tumours of pituitary
- (ii) Pituitary
- (iii) Adrenal
- (iv) Thyroid
- (v) Parathyroid-Goiter, Graves' disease, Cretinitism, Myxedema, Thyroiditis

**(j) RETICULOENDOTHELIUM SYSTEM**

- (i) Diseases of Spleen
- (ii) Lymphadenopathy
- (iii) Tumours of lymphoid tissue including Hodgkin's disease
- (iv) Reticulosis, Ewings, Sarcoma

**(k) BONES & JOINTS AND SKELETAL MUSCLE**

- (i) Osteomyelitis
- (ii) Osteoarthritis – Rheumatic arthritis
- (iii) Gout
- (iv) Tumours

**(l) NERVOUS SYSTEM**

- (i) Meningitis
- (ii) Acute Ant. Poliomyelitis
- (iii) Syphilis of C.N.S. & Tumours
- (iv) Gliomas – Tumours of brain & spinal Cord
- (v) Spinal cord – Tumours of Brain & Spinal Cord.

**(m) HAEMATOPOETIC SYSTEM**

- (i) Anaemias
- (ii) Polycythemia
- (iii) Leukemia
- (iv) Multiple myeloma
- (v) Bleeding disorders
- (vi) Blood transfusion

**(3) MORBID PATHOLOGY**

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**PATHOLOGY (PAPER CODE: PAPER II – 201042N)**

**TIME: - 3 HOURS**

**Paper – II**

**Full Marks (100 Marks)**

Paper II shall contain question from the following topics:-

## **1. CLINICAL PATHOLOGY**

- (a) Examination of Urine
- (b) Examination of CSF
- (c) Examination of Fluids (Pleural, Peritoneal & Pericardia's)
- (d) Examination of Seminal Fluid

## **2. HAEMATOLOGY**

- (a) TC & DC
- (b) Platelets & Reticulocytes
- (c) Differential WBC Count
- (d) Hb Estimation
- (e) PCV & Absolute Values
- (f) Prothrombin Time
- (g) Bleeding Time & Coagulation
- (h) Determination of ESR
- (i) Osmotic Fragility Test
- (j) Sickling Test
- (k) Rh typing & ABO Grouping
- (l) Demonstration of Slides (Hematological, Peripheral & Bone Marrow)

## **3. CHEMICAL PATHOLOGY**

- (a) Gastric Analysis
- (b) Function Tests- Kidney, Liver, Pancreas, & Endocrine Glands
- (c) Variations of chemical composition of Blood, Urine & CSF

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## MICROBIOLOGY (PAPER CODE: PAPER I – 201051N)

TIME: - 3 HOURS

**Paper – I**

**Full Marks (100 Marks)**

Paper I shall contain questions from the following topics:-

- (1) General bacteriology – (a) Historical introduction, (b) Morphology & Physiology of Bacteria, (c) Sterilization & Disinfection (d) Culture Media , their preparation & uses (e) Bacterial staining (f) Classification & Identification of Micro Organism (G) Morphology & Nature of Bacteria (h) Growth & Nutrition of bacteria (i) bacterial Genetics
- (2) Systemic bacteriology – Morphology, Culture Characters, Biochemical Reactions, Antigenic properties, toxin Production, Pathogenesis, Laboratory Diagnosis, Prevention & Epidemiology of following bacterial
  - a) Gram Positive Cocci: - staphylococcus, Streptococcus, Pneumococcus
  - b) Gram Negative Cocci: - Neisseria
  - c) Gram Positive Bacilli: -Corynebacterium, Bacillus. Clostridia, Mycobacterium
  - d) Gram negative Bacilli: - Enterobacteriaceae, Escherichia, Klebsiella, Proteus, Shigella, salmonella, Vibrio
  - e) Cocco bacilli: - Brucella, Pasteurella, yersinia, Bordetella,
  - f) Misc: - Actinomyetes, Complyobavter, Helicobacter Pylori, Listeria
  - g) Spirochetes: - Trepanoma, Borrelia, Leptospira
  - h) Mycoplasma
  - i) Chlamydia
  - j) Rickettsia
- 3) Any other relevant topics of importance of MBBS standard

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## **MICROBIOLOGY (PAPER CODE: PAPER II – 201052N)**

**TIME: - 3 HOURS**

**Paper – II**

**Full Marks (100 Marks)**

Paper II shall contain question from the following topics:-

1. Parasitology  
Protozoa: - Epidemiology, Morphology, Life Cycle, pathogenesis, & Laboratory Diagnosis of all protozoa  
Helminthes
2. Virus:-  
General Properties of Virus, Classification of Virus  
Structure & Chemical \composition of Virus  
Inclusion Bodies, interference &interferon's  
Viral Haemagglutination, laboratory Diagnosis of Viral Diseases  
Immunodeficiency Disease
3. Medical Mycology  
Superficial 7 Deep Mycoses
4. Immunology  
Immunity, Antigens, Antibodies (Immunoglobulins), Antigen- Antibody reaction, Compliment system, Structure & Functions of the immune system, Immune response. Immune deficiency disease, hypersensitivity, Autoimmunity
5. Hospital Infection
6. Immunoprophylaxis
7. Any other reverent topics of importance of MBBs standard

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**PHARMACOLOGY (PAPER CODE: PAPER I – 201061N)**

**TIME: - 3 HOURS**

**Paper – I**

**Full Marks (100 Marks)**

Paper I shall contain questions from the following topics:-

- 1) General Pharmacology
- 2) Drugs acting on Autonomic Nervous System
- 3) Drugs acting on somatic nervous System, Muscle relaxants, Local Anesthetics
- 4) Antimicrobial Drugs & Chemotherapy of Neoplastic Diseases
- 5) Drugs acting on Cardiovascular System
- 6) Vitamins
- 7) Vaccine & Sera
- 8) Immuno Modulators

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**PHARMACOLOGY (PAPER CODE: PAPER II – 201062N)**

**TIME: - 3 HOURS**

**Paper – II**

**Full Marks (100 Marks)**

Paper II shall contain questions from the following topics:-

- 1) Drugs acting on central Nervous system
- 2) Drugs acting on kidney
- 3) Hormones & related drugs
- 4) Drugs affecting blood & blood formation
- 5) Drugs acting on GIT
- 6) Drugs acting on Respiratory system
- 7) Autacoids and related drugs
- 8) Drugs acting on skin & mucous membrane
- 9) Antiseptics, Dis Infectants, Ectoparasticides
- 10) Chelating Agents



## MARKS PATTERN

QUESTION TYPE	MARKS X QUESTION = TOTAL MARKS
(I) MCQ	: - 02 X 05 = 10 MARKS
(II) LONG ESSAY QUESTION	: - 10 X 01 = 10 MARKS
(III) SHORT NOTE	: - 04 X 05 = 20 MARKS
(IV) REASONING	: - 03 X 05 = 15 MARKS
(V) SHORT NOTE	: - 05 X 04 = 20 MARKS
(VI) SHORT NOTE	: - 05 X 05 = 25 MARKS
<b>FULL MARKS</b>	<b>: - 100</b>

