2nd 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.
(e) Sarcoidosis
(f) Pigments & Pigmentation Haemosiderosis, Hemochromatosis, Jaundice, Prophyrins & Porphyria.
(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 & BILIIARY 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) Hirschesprung’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 & Salphingitis
(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, Creationism, Myxedema, Thyroiditis

(j) **RETICULOENDOTHELIUM SYSTEM**
   (i) Diseases of Spleen
   (ii) Lymphadenopathy
   (iii) Tumours of lymphoid tissue including Hodgkin’s disease
   (iv) Reticulos, 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**
2nd Professional M.B.B.S S (2019-Batch)

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
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, yarsinia, 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
2nd Professional M.B.B.S S (2019-Batch)

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
   Virual 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. Immun prophylaxis
7. Any other reverent topics of importance of MBBs standard
2nd Professional M.B.B.S S (2019-Batch)

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
2nd Professional M.B.B.S S (2019-Batch)

PHARMACOLOGY (PAPER CODE: PAPER II – 201062N)

TIME: - 3 HOURS

Paper – II

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, Ectoparasiticides
10) Chelating Agents
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