

22/6/22
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.
- (d) Degeneration: Necrosis, Disturbances of circulation Ischemia, Hyperemia of circulation, Gangrene, Thrombosis, Haemorrhage, Embolism, Shock & Edema.
- (e) Sarcoidosis
- (f) Pigments & Pigmentation Haemosiderosis, Hemochromatosis, Jaundice, Porphyrins & 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

