

2nd prof - Microbiology, Pathology,
Pharmacology, Forensic Medicine.

3rd prof (Part-I) - Ophthalmology, ENT

3rd prof (Part-II) - Obst & Gynae, Pediatrics,
Medicine, Surgery,
Community Medicine.

2041
M.B.B.S. Prof. Second
Paper - A: Microbiology

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt all questions. Use separate answer sheet for each Unit. Draw labeled diagrams wherever required.

x-x-x

UNIT - I

- I. A 5 year old child presented in the casualty with high grade fever, toxemia, throat pain and inability to swallow. On examination, a white patch was found on the fauces. There is no history of immunization.
- a) What is the most probable diagnosis? (1)
 - b) Describe the pathogenesis of the condition. (2)
 - c) Write its laboratory diagnosis in brief. (3)
 - d) Write a short note on its prophylaxis. (2)
- II. Discuss briefly:-
- a) Bacterial cell wall
 - b) Membrane filters (2x3)
- III. Write short notes on:-
- a) Rapid antigen and antibody tests
 - b) Type -1 hypersensitivity
 - c) T-lymphocytes (2x3)

UNIT - II

- IV. Describe in brief:-
- a) Laboratory diagnosis of scrub typhus
 - b) MDR tuberculosis (4+4)
- V. Discuss briefly:-
- a) Plasmids in drug resistance
 - b) Recombinant vaccines
 - c) Polymerase chain reaction (3x2)

P.T.O.

(2)

VI. Discuss in short:

- a) Lyme disease
- b) Pathogenesis of cholera
- c) Brucellosis

(3x2)

x-x-x

2041

M.B.B.S. Prof. Second
Paper - B: Microbiology

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt all questions. Use separate answer sheet for each Unit. Draw labeled diagrams wherever required.

x-x-x

UNIT - I

- I. A 60 years person reactive for HIV presented with altered mental status, seizures, sensory abnormalities. The bone marrow aspirate collected was sent for giemsa.
 - a) Identify the etiological agent
 - b) Write about life cycle
 - c) Diagnosis and treatment (8)
- II. Discuss in short:-
 - a) SARS Co-V 2
 - b) Inclusion bodies (2x3)
- III. Write briefly on:-
 - a) Candidiasis
 - b) Mycetoma (2x3)

UNIT - II

- IV. Write short notes on:-
 - a) Rabies vaccine
 - b) Lab diagnosis and malaria (2x3)
- V. Discuss in short:-
 - a) Extrahepatic amoebiasis
 - b) Larva migrans (2x3)
- VI. Write briefly:-
 - a) Dengue and dengue haemorrhagic fever
 - b) Hepatitis A virus (2x3)

x-x-x

2041
M.B.B.S. Prof. Second
Paper - A: Pathology

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt all questions. Use separate answer sheet for each Unit. Draw labeled diagrams wherever required.

x-x-x

UNIT - I

- I. Write short notes on :-
- a) Apoptosis
 - b) Chemical mediators of inflammation (2x4)
- II. Tabulate differences between:-
- a) Red and white infarct
 - b) Benign and malignant tumours (2x3)
- III. Write short notes on:-
- a) Granuloma
 - b) Opportunistic infections in AIDS (2x3)

UNIT - II

- IV. Write short notes on:-
- a) Laboratory diagnosis of megaloblastic anaemia
 - b) Philadelphia chromosome (2x3)
- V. Write short notes on:-
- a) RS cell and their variants
 - b) Peripheral blood smear picture of thalassaemia (2x3)
- VI. Describe:-
- a) Diagnostic work up of DIC
 - b) Laboratory diagnosis of multiple myeloma (2x4)

x-x-x

Exam.Code:0606
Sub. Code: 4527

2041
M.B.B.S. Prof. Second
Paper - B: Pathology

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt all questions. Use separate answer sheet for each Unit. Draw labeled diagrams wherever necessary.

x-x-x

UNIT - I

- I. Write short notes on :-
- a) Gross and Microscopic features of Lobar Pneumonia
 - b) Difference between benign and malignant ulcers of Stomach (4,3)
- II. Write briefly about:-
- a) Morphology and Complication of Myocardial Infarction
 - b) Small cell carcinoma Lung (4,3)
- III. Write briefly about:
- a) Serological markers in Hepatitis B infections
 - b) Definition and causes of Nephrotic Syndrome (2x3)

UNIT - II

- IV. Write briefly about:-
- a) Difference between Bacterial, Viral and Tubercular Meningitis
 - b) Complications of Diabetes Mellitus (4,3)
- V. Write short notes on:-
- a) Papillary Carcinoma Thyroid
 - b) CIN (*Carcinoma in situ*) (3,4)
- VI. Write short notes on:-
- a) Ewing's Sarcoma
 - b) Seminoma Testis (2x3)

x-x-x

2041
M.B.B.S. Prof. Second
Paper – A: Pharmacology

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt all questions. Use separate answer sheet for each Unit. Attempt all questions in serial order and in continuation.

x-x-x

UNIT – I

I. Explain why:-

- a) Paracetamol is preferred to Aspirin in Dengue fever
- b) Morphine should not be given for an undiagnosed abdominal pain
- c) Loading dose and maintenance dose are different for drugs
- d) Pralidoxime is given in organophosphate poisoning (4x2)

II. Discuss briefly the drug therapy of:-

- a) Chronic persistent bronchial asthma
- b) Absence Seizures (3x2)

III. Write short notes on:-

- a) Sodium Valproate
- b) Penicillamine
- c) Placebo (3x2)

UNIT - II

IV. Write in brief the pharmacological basis for the use of:-

- a) Tamsulosin in benign prostatic hyperplasia
- b) Infliximab in rheumatoid arthritis
- c) Triple drug therapy for ulcer management (3x2)

V. Explain Why:-

- a) Probiotics are often used for the treatment of diarrhoea
- b) Regular use of nasal decongestants should be avoided
- c) Dopamine is given in hypovolemic shock
- d) D₂ receptor blockers are preferred in Psychosis (4x2)

P.T.O.

(2)

VI. Write short notes on:

- a) Donepezil
- b) Balanced anaesthesia
- c) Inverse Agonist

x-x-x

2041
M.B.B.S. Prof. Second
Paper – B: Pharmacology

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt all questions. Use separate answer sheet for each Unit. Attempt all questions in serial order and in continuation.

x-x-x

UNIT – I

- I. Discuss briefly:
- a) Incretin mimetics
 - b) Drug used in thyroid storm
 - c) Post coital contraception (3x2)
- II. Write pharmacotherapy of :-
- a) Unstable angina
 - b) Senile osteoporosis
 - c) Multi drug resistant falciparum malaria (3x2)
- III. Explain pharmacological basis of the use of:-
- a) Hydrochorthiazide in diabetes insipidus
 - b) Acei in congestive heart failure
 - c) Mannitol in cerebral edema
 - d) Alfa adrenergic blockers in hypertension (4x2)

UNIT - II

- IV. Describe the following:-
- a) Role of low molecular weight heparin in therapy
 - b) Role of bromocriptine for suppression of lactation
 - c) Role of octreotide in upper gastrointestinal bleeding (3x2)
- V. Explain why:-
- a) Metronidazole and diloxanide furoate are used in Amoebiasis
 - b) Imipenen and cilastatin are used together in bacterial infection
 - c) Combination therapy is used in HIV infection (3x2)

(2)

VI. Write short notes on:-

- a) Lepra reaction
- b) Azathioprine
- c) Topical antifungal agents
- d) Vitamin K

(4x2)

x-x-x

2041
M.B.B.S. Prof. Second
Paper: Forensic Medicine

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt all questions. Use separate answer sheet for each Unit.

x-x-x

UNIT - I

I. Write short notes on :-

- a) Recording of evidence in court of law
- b) Hallucination
- c) Collection of samples in a victim of rape
- d) Infamous conduct

(4x2)

II. Answer as directed :-

- a) Criminal negligence
- b) Draw dental Formula (FDI) of a girl 10 year of age.
- c) Fractures of skull

(3x2)

III. Differentiate between:-

- a) Permanent and Temporary teeth
- b) Suicidal and Homicidal cut throat wound
- c) Extradural haematoma and Heat Haematoma

(3x2)

UNIT - II

IV. Write short notes on :-

- a) Signs and symptoms of organo -phosphorous Poisoning
- b) Treatment of Cyanide poisoning
- c) Sec. 320 I.P.C.
- d) Dying declaration

(4x2)

P.T.O.

(2)

V. Answer as directed:-

- a) Duties of a doctor in suspected poisoning
- b) Chelating agents
- c) Physical dependence

(3x2)

VI. Differentiate between:-

- a) Acute arsenic poisoning and Cholera
- b) Live born and dead born fetus
- c) Dying declaration and dying deposition

(3x2)

x-x-x

2041
M.B.B.S. Prof. Third (Part - I)
Paper: Ophthalmology

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt all questions. Use separate answer sheet for each Unit. All questions carry equal marks.

x-x-x

UNIT - I

- I. D/D of Red Eye and write management of any one domain entity.
- II. Sturms Conoid.
- III. Causes and investigation in a case of epiphora.
- IV. Causes of leucocoria in a child.
- V. Papilloedema.

UNIT - II

- VI. Sturm's Conoid.
- VII. Classification of Diabetic Retinopathy.
- VIII. Differentiate between comitant and noncomitant squint.
- IX. Proptosis.
- X. Visual field defects in Glaucoma.

x-x-x

2041
M.B.B.S. Prof. Third (Part - I)
Paper: E.N.T.

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt all questions. Use separate answer sheet for each Unit. Draw labeled diagram wherever necessary.

x-x-x

UNIT - I

- I. Describe the etiology, clinical features and management of acute suppurative otitis media. (6)
- II. Write short note on :-
 - a) Pure tone audiometry
 - b) Antrochoanal polyp (2x4)
- III. Draw a labeled diagram of:-
 - a) Blood supply of nasal septum
 - b) Blood supply of tonsil (2x3)

UNIT - II

- IV. Describe the etiology, clinical features and management of Carcinoma Larynx (T3N0M0). (6)
- V. Write short note on:-
 - a) Leukoplakia
 - b) Plummer Vinson's syndrome (2x4)
- VI. Enumerate the causes of :-
 - a) Unilateral nasal obstruction
 - b) lower motor neuron facial nerve palsy (2x3)

x-x-x

2041

M.B.B.S. Prof. Third (Part - II)
Paper - B: Obstetrics and Gynaecology

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt all questions.

x-x-x

UNIT - I

- I. a) What are the causes of post-menopausal bleeding? How will you manage a case of post menopausal bleeding?
- b) Define primary amenorrhoea. How will you investigate a case of primary amenorrhoea. (2x5)
- II. a) Outline the management of a case of suspected ectopic pregnancy.
- b) What is pelvic inflammatory disease (PID)? Enumerate the COC criteria for diagnosis of pelvic inflammatory disease (2x5)

UNIT - II

- III. a) Write management and follow up of H. Mole of 10 weeks of gestation.
- b) Classification of malignant ovarian tumours. (2x5)
- IV. a) Write notes on cervical cancer screening.
- b) Enumerate various methods of tubal ligation. Describe Pomeroy's method of tubal ligation. (2x5)

x-x-x

2041
M.B.B.S. Prof. Third (Part - II)
Paper: Paediatrics

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt all questions.

x-x-x

UNIT - I

- I. What are the 4Ds of RBSK? Enumerate 4 conditions covered under each D. Describe the categories of children covered and implementation strategy. (2,4,2,2)
- II. Write short notes on:-
 - a) Principles of growth and development
 - b) Advantages of Breast feeding (2x2½)
- III. Write short notes on:-
 - a) Hemorrhagic disease of newborn
 - b) Physiological jaundice (2x2½)

UNIT - II

- IV. Define acute flaccid paralysis. Describe clinical features, differential diagnosis and management of a case of AFP. (2,2,4,2)
- V. Write short notes on:-
 - a) Clinical spectrum of COVID-19
 - b) Differential diagnosis of microcytic hypochromic anaemia (2x2½)
- VI. Write short notes on:-
 - a) Causes of hematuria
 - b) Budd Chiari syndrome (2x2½)

x-x-x

2041
M.B.B.S. Prof. Third (Part - II)
Paper - A: Medicine

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt all questions. Use separate answer sheet for each Unit.

x-x-x

UNIT - I

- I. Describe the etiology, Pathogenesis, clinical features and treatment of heart failure. (3,3,3,3)
- II. Write note on :-
- a) Diagnostic criteria for infective endocarditis
 - b) Autosomal recessive disorders
 - c) Pathogenesis of peptic ulcer disease (3x3)
- III. Briefly describe:-
- a) Adult vaccination
 - b) Drug induced liver injury
 - c) Treatment of variceal bleed (3x3)

UNIT - II

- IV. Discuss the etiology, pathogenesis, clinical features and treatment of community acquired Pneumonia. (3,3,3,3)
- V. Write note on:-
- a) Acute kidney injury
 - b) Nephrotic syndrome
 - c) Acute severe asthma (3x3)
- VI. Briefly describe:-
- a) Complications of acute pancreatitis
 - b) Medical problems in elderly patients
 - c) Communication skills in clinical medicine (3x3)

x-x-x

2041

M.B.B.S. Prof. Third (Part - II)

Paper - B: Medicine

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt all questions. Use separate answer sheet for each Unit.

x-x-x

UNIT - I

- I. Describe the etiology, clinical features, investigations in iron deficiency anemia. (4,4,4)
- II. Write note on :-
- a) Clinical features of acromegaly
 - b) Subacute thyroiditis
 - c) Diagnosis of diabetes mellitus (3x3)
- III. Describe briefly:-
- a) Investigations of Rheumatology
 - b) Disease modifying anti-rheumatic drug
 - c) Hyperkalemia (3x3)

UNIT - II

- IV. Describe briefly:-
- a) Diagnosis and treatment of syphilis
 - b) Acne vulgaris
 - c) Herpes zoster (3x4)
- V. Write note on:-
- a) Bipolar disorder
 - b) Anxiety disorders
 - c) Alcohol dependence (3x3)

P.T.O.

(2)

VI. Write note on :-

- a) Clinical manifestations of snake bite
- b) Organo-phosphate poisoning
- c) Palliative care in cancer

(3x)

x-x-x

2041

M.B.B.S. Prof. Third (Part - II)
Paper - A: Surgery

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt all questions. Use separate answer sheet for each Unit. Draw labeled diagrams wherever required.

3x3)

x-x-x

UNIT - I

I. Discuss wound healing, its stages. What are the factors affecting wound healing. (10)

II. Discuss briefly:-

a) Surgical site infection

b) Abdominal tuberculosis

(2x6)

III. Write short notes on:-

a) Deep vein thrombosis (DVT)

b) Sebaceous cyst

c) Hypertrophic scar

d) Melanoma

(4x2)

UNIT - II

IV. Describe colles fracture. Its diagnostic, criteria, principles of management and complications. (10)

V. Write short notes on:-

a) Delayed union

b) VIC

c) Syme's amputation

d) Giant cell tumour

(4x5)

x-x-x

2041

M.B.B.S. Prof. Third (Part - II)

Paper - B: Surgery

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt all questions. Use separate answer sheet for each Unit. Draw labeled diagrams wherever required.

x-x-x

UNIT - I

- I. Discuss acute appendicitis and its management in detail. (10)
- II. Discuss briefly about:-
- a) Liver abscess
 - b) Achlasia chrdia (2x6)
- III. Write short notes on:-
- a) Blood supply of brain
 - b) Segmental anatomy of Liver
 - c) Hirschsprung's disease
 - d) Tension Pneumothorax (4x2)

UNIT - II

- IV. Classify salivary gland tumours. Discuss pleomorphic adenoma. (10)
- V. Discuss briefly:-
- a) Management of right sided colon cancer
 - b) Benign prostatic hypertrophy and its management (2x6)
- VI. Write short notes on :-
- a) Cryptorchidism
 - b) Renal stones
 - c) Parathyroid adenoma
 - d) Umbilical hernia (4x2)

x-x-x

Exam.Code:0607

Sub. Code: 4530

2041

M.B.B.S. Prof. Third (Part - I)
Paper - A: Community Medicine

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt all questions. Use separate answer sheet for each Unit.

x-x-x

UNIT - I

I. Write short notes on:-

- a) Epidemiological triad
- b) Prevention and control of air pollution (2x5)

II. Describe briefly:-

- a) Diseases spread by Culex and Aedes mosquitoes to human beings. Briefly discuss the integrated vector control measures.
- b) Define surveillance. Briefly discuss the types of surveillance with suitable examples. (2x5)

III. Write short notes on:-

- a) Briefly describe how to assess the nutritional status of a child under 5 years of age.
- b) Define counselling. Highlight the need for counselling in HIV affected person. (2x5)

UNIT - II

IV. Write short notes on:-

- a) Define Neonatal Mortality Rate. Briefly discuss the causes of neonatal mortality in India.
- b) Measures of central tendency. (2x5)

V. Describe briefly:-

- a) Define child sex ratio. Briefly discuss the factors affecting sex ratio in India.
- b) Define Health Education. Discuss the role of health education in prevention of health problems. (2x5)

VI. Write short notes on:-

- a) Pneumoconiosis
- b) Genetic counseling (2x5)

x-x-x

2041

M.B.B.S. Prof. Third (Part - I)
Paper - B: Community Medicine

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt all questions. Use separate answer sheet for each Unit.

x-x-x

UNIT - I

I. Write short notes on:-

- a) Levels of health care and functions of Community Health Center (CHC).
- b) Define epidemiology. Briefly discuss types of epidemiology. (2x5)

II. Describe briefly:-

- a) Define Epidemic. Briefly discuss the steps for outbreak investigation.
- b) Cost effective and cost benefit analysis. (2x5)

III. Write short notes on:-

- a) What is screening of diseases. Briefly discuss the types of screening.
- b) Functions of Medical officer at Primary Health Center. (2x5)

UNIT - II

IV. Write short notes on:-

- a) Pneumococcal conjugate vaccine.
- b) Discuss prevention and control of COVID 19 disease. (2x5)

V. Describe briefly:-

- a) Health and Wellness center.
- b) Diagnosis of Pulmonary Tuberculosis. (2x5)

VI. Write short notes on:-

- a) Prevention of Ischemic heart disease.
- b) Weekly Iron and Folic acid supplementation (WIFS Plus) Programme. (2x5)

x-x-x