

SECOND M.B.B.S. Examination

Pharmacology

Paper-I

Date : 01-01-2019, Tuesday]

[Max. Marks : 40

[Time : 2 Hours

- Instructions :** (1) Answer to the point.
(2) Figure to the right indicates marks.
(3) Draw diagrams wherever necessary.
(4) Write legibly.

Que. 1) Write notes on any 2 (2x5=10)

- Classify anti-depressant drugs. Write mechanism of action, pharmacological action of fluoxetine. Therapeutic uses & adverse effects of fluoxetine.
- Classify anti-anginal drugs. Write mechanism of action & pharmacological action of atenolol. Therapeutic uses & adverse effects of atenolol.
- Classify anti-cholinergic drugs. Write mechanism of action & pharmacological action of atropine. Therapeutic uses & adverse effects of atropine.

Que. 2) Write short notes on any 3 (3x4=12)

- Clinical uses of α - blockers.
- Life saving uses of adrenaline.
- Drug Therapy for chronic simple glaucoma
- Uses & adverse effects of H1 anti- histaminic.

Que. 3) Write short notes on any 3 (3x4=12)

- Pharmacotherapy of myasthenia gravis.
- Pharmacotherapy of status epileptics.
- Dopamine.
- Factors affecting bioavailability.

Que. 4) Write answer to the point in 2-3 sentences. Attempt any 6 (1x6=6)

- Pharmacological basis for the use of frusemide in congestive cardiac failure.
 - Pharmacological basis for the use of ACE inhibitors in hypertension.
 - Pharmacological basis for the use of steroids in bronchial asthma.
 - Pharmacological basis for the use of olanzapine in psychiatric illness.
 - Pharmacological basis for the use of amantadine in Parkinson's disease.
 - Pharmacological basis for the use of streptokinase in myocardial infarction.
 - Pharmacological basis for the use of dimercaprol in mercury poisoning.
 - Half life of drugs.
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1/1208

0119E514

Candidate's Seat No : _____

SECOND M.B.B.S. Examination

Pharmacology

Paper-II

Date : 03-01-2019, Thursday]

[Time : 2 Hours

[Max. Marks : 40

- Instructions :** (1) Answer to the point.
(2) Figure to the right indicates marks.
(3) Draw diagrams wherever necessary.
(4) Write legibly.

Que. 1) Write notes on any 2 (2x5=10)

- Classify anti-ulcer drugs. Write mechanism of action & pharmacological action of omeprazole. Therapeutic uses & adverse effects of omeprazole.
- Classify corticosteroids. Write mechanism of action & pharmacological action of hydrocortisone. Therapeutic uses & adverse effects of hydrocortisone.
- Classify anti-tubercular drugs. Write mechanism of action & pharmacological action of Rifampicin. Therapeutic uses & adverse effects of Rifampicin.

Que.2) Write short notes on any 3 (3x4=12)

- Treatment of diabetic ketoacidosis
- Mechanism of action & therapeutic uses of Quinolones.
- Advantages of low molecular weight heparins.
- Mechanism of actions & adverse effects of Lamivudine.

Que.3) Write short notes on any 3 (3x4=12)

- Pharmacotherapy of chloroquine resistant malaria.
- Selective estrogens receptor modulators (SERMs).
- Cell cycle specific anti-cancer drugs.
- Mechanism of actions & clinical uses of amphotericin-B.

Que.4) Write answers to the point in 2 or 3 sentences. (Any six) (6x1=6)

- Pharmacological basis for the use of propranolol in treatment of thyrotoxicosis.
 - Indications for chemoprophylaxis in tuberculosis.
 - Mechanism of action of oral contraceptive pills.
 - Clinical uses of Vitamin K.
 - Uses of oxytocin.
 - Adverse effects of third generation cephalosporins.
 - Indications of human insulin.
 - Post exposure prophylaxis of HIV infection.
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0119E525

Candidate's Seat No : _____

SECOND M.B.B.S. Examination
Pathology
Paper-I

Date : 05-01-2019, Saturday]
[Time : 2 Hours

[Max. Marks : 40

- Instructions :** (1) Answer to the point.
(2) Figure to the right indicates marks.
(3) Draw diagrams wherever necessary.
(4) Write legibly.

Q. 1) Write notes on (any two) **(10 marks)**

- a) Define thrombus and mention its causes and sequelae.
- b) Define inflammation and enumerate chemical mediators of inflammation.
- c) Define anaemia and mention laboratory test findings in a case of thalassaemia.

Q. 2) Write short notes on (any three) **(12 marks)**

- a) Define apoptosis and mention its physiological and pathological examples.
- b) Type I Hypersensitivity reaction
- c) Define neoplasm and mention its types with examples.
- d) Define granuloma and mention its types.

Q. 3) Write short notes on (any three) **(12 marks)**

- a) Aplastic anaemia
- b) Acute lymphoblastic leukaemia
- c) Hemophilia
- d) Blood group systems

Q.4) Answer to the point (any six) **(6 marks)**

- a) Philadelphia chromosome
 - b) Stains for amyloid
 - c) Causes of transudate and exudate
 - d) Sickle cells
 - e) Types of transfusion reactions
 - f) Liquefactive necrosis
 - g) Metaplasia
 - h) Metastatic calcification
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SECOND M.B.B.S. Examination

Pathology

Paper-II

Date : 07-01-2019, Monday]

[Max. Marks : 40

[Time : 2 Hours

- Instructions :** (1) Answer to the point.
(2) Figure to the right indicates marks.
(3) Draw diagrams wherever necessary.
(4) Write legibly.

Q. 1) Write notes on (any two)

(10 marks)

- a) Morphological changes in the heart in a case of myocardial infarction.
- b) Enumerate causes of liver cirrhosis and describe its pathogenesis.
- c) Enumerate criteria of nephritic and nephrotic syndrome with examples.

Q. 2) Write short notes on (any three)

(12 marks)

- a) Laboratory diagnosis of tubercular meningitis
- b) Laboratory diagnosis of jaundice.
- c) Urine microscopy.
- d) Enumerate diagnostic criteria of rheumatic fever and mention its sequelae.

Q. 3) Write short notes on (any three)

(12 marks)

- a) Define pneumonia and describe morphological stages of lobar pneumonia.
- b) Describe radiological and morphological findings in a case of osteosarcoma.
- c) Differentiate between benign (peptic) and malignant ulcers of the stomach.
- d) Classification of ovarian tumours.

Q.4) Answer to the point (any six)

(6 marks)

- a) Types of intestinal polyps.
 - b) Types of emphysema
 - c) Classification of renal cell carcinoma
 - d) Microalbuminuria
 - e) Diagnostic criteria of diabetes mellitus
 - f) Normal findings in semen analysis
 - g) Types of thyroid neoplasms
 - h) Classification of breast carcinoma
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SECOND M.B.B.S. Examination

Micro-Biology

Paper-I

Date : 09-01-2019, Wednesday]

[Max. Marks : 40

[Time : 2 Hours

- Instructions :** (1) Answer to the point.
(2) Figure to the right indicates marks.
(3) Draw diagrams wherever necessary.
(4) Write legibly.

- Q1. Write briefly (any two out of three) (10)
- Describe Type-1 Hypersensitivity.
 - Discuss laboratory diagnosis of Brucellosis.
 - Define Inspissations; write principle, procedure and uses of the same.
- Q2. Write short notes (any three out of four) (12)
- Methods of Anaerobiasis.
 - Standard tests of Syphilis.
 - Mechanism of Gene transfer in bacteria.
 - Loeffler's serum slope.
- Q3. Write short notes (any three out of four) (12)
- L-forms of bacteria
 - Hybridoma technology
 - Bacterial food poisoning
 - Principle and protocol of ELISA.
- Q4. Write answers in short (any six) (6)
- TSI agar
 - Elek's gel precipitation test
 - Koch's postulates
 - CAMP test
 - Nagler's reaction
 - Presumptive coliform count
 - Chloera Vibrio* immobilization test
 - Leptospirosis
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SECOND M.B.B.S. Examination
Micro-Biology
Paper-II

Date : 11-01-2019, Friday]
[Time : 2 Hours

[Max. Marks : 40

- Instructions :** (1) Answer to the point.
(2) Figure to the right indicates marks.
(3) Draw diagrams wherever necessary.
(4) Write legibly.

Q1. Write briefly (any two out of three) (10)

- Describe the etiology, clinical manifestation and laboratory diagnosis of *Candida albicans*.
- Discuss morphology, pathogenesis and laboratory diagnosis of Dengue virus infection.
- Discuss life cycle, pathogenesis and laboratory diagnosis of *Ancylostoma duodenale*.

Q2. Write short notes (any three out of four) (12)

- Laboratory diagnosis of Primary amoebic encephalitis.
- Laboratory diagnosis of *Pneumocystis carinii*
- Sero-diagnosis of Hepatitis B.
- Rhinosporidiosis.

Q3. Write short notes (any three out of four) (12)

- Evolution of Hydatid cyst.
- Microscopy in viral diagnosis
- Cryptococcal meningitis
- Immunoprophylaxis of Rabies.

Q4. Write answers in short (any six) (6)

- Post Kala-azar dermal Leishmaniasis.
 - PBF in falciparum malaria.
 - Occult filariais
 - Classification of Dermatophytes
 - Strategies of HIV testing
 - Viral hemorrhagic fevers in India
 - Katayama fever
 - Antifungal drugs
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SECOND M.B.B.S. Examination
Forensic Medicine

Date : 17-01-2019, Thursday]

[Max. Marks : 40

[Time : 2 Hours

- Instructions :** (1) Answer to the point.
(2) Figure to the right indicates marks.
(3) Draw diagrams wherever necessary.
(4) Write legibly.

1) Write briefly (any two)

(2x5=10)

- (a) What are the changes after death? Describe only External Signs of Putrefaction.
(b) Describe sign- symptoms, treatment and postmortem finding in case of Organophosphorus poisoning.
(c) Discuss Medicolegal importance of different age in detail.

2) Write Short notes on (any three)

(3x 4= 12)

- (a) Joule burn
(b) Difference between Hanging and Strangulation
(c) Signs of Dead born child
(d) Professional Secrecy

3) Write Short notes on (any three)

(3x 4= 12)

- (a) Exhumation
(b) Signs, Symptoms and Treatment of Datura Poisoning.
(c) Dying declaration and Dying deposition
(d) Grievous Hurt

4) Write answer in two or three sentences (Any Six)

(6x1=6)

- (a) Abrasion collar
(b) Precipitate Labour
(c) Cafe coronary syndrome
(d) Sadism
(e) Vitriolage
(f) Suis
(g) Body packer syndrome
(h) Mc Naughten Rule
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