



RAN - 2006000102030001

RAN-2006000102030001

IInd M.B.B.S. Examination

February - 2021

Pharmacology: Paper - 1 Set-I

Pharmacology IInd MBBS

Time: 2 Hours]

[Total Marks: 40

સૂચના : / Instructions

(૧)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

IInd M.B.B.S.

Name of the Subject :

Pharmacology: Paper - 1 Set-I Pharmacology IInd MBBS

Subject Code No.: 2006000102030001

Seat No.:

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Student's Signature

Section I

Q-1. Answer the following.

[1*10=10]

- Define 'Pharmacovigilance' and mention one reason why it should be must.
- Why is ipratropium bromide preferred over atropine for COPD (chronic obstructive pulmonary disease)?
- Name two conditions in which combination of neostigmine and atropine is given?
- Why nedocromil sodium should not be used for treatment of acute attack of asthma?
- Why frequency of administration of antacid administration is more in comparison for required effect?
- Write the drug of choice, its route and time of administration in motion sickness in long journey.

- g. Explain why propranolol should be avoided in Prinzmetal angina?
- h. Give rationale for starting heparin and warfarin together in acute thromboembolic state.
- i. Justify rationale of using Fixed Dose Combination (FDC) Hydrochlorothiazide with spironolactone.
- j. What is the mechanism of action of clonidine in Hypertension?

Q-2. Answer any four of the following. [2*4=8]

- a. What is the effect of changing urinary pH on drug excretion? Give one example for each for increase and decrease in pH.
- b. Enumerate prostaglandin analogues and their therapeutic uses.
- c. Mention various routes of administration of adrenaline with its therapeutic indication.
- d. Enumerate inotropic drugs. Explain the mechanism of action of Digoxin and mention its side effects.
- e. Describe role of inhalational corticosteroids in bronchial asthma and explain why in status asthmaticus bronchodilator is more effective by I/V route rather than inhalational route?

Section II

Q-3. Answer any four of the following. [3*4=12]

- a. What is loading dose and maintenance dose? Explain with appropriate drug example.
- b. Enumerate alfa blockers. Mention uses and adverse effects of Phentolamine.
- c. Explain the concept of bioavailability. Describe various factors affecting bioavailability.
- d. Explain the role of ACE inhibitors in pharmacotherapy of congestive heart failure. What is the status of digitalis in CHF?
- e. Describe in detail different stages of dehydration due to diarrhea. Describe treatment of moderate and severe dehydration.

Q-4. Answer any two of the following. [5*2=10]

- a. Enumerate various iron preparations. Describe important features of handling of iron by body after ingestion. Highlight the importance of these features in relation to therapy of iron deficiency anemia.
- b. Classify cholinomimetic agents. Write in detail about their therapeutic uses giving pharmacological basis of each use and their adverse effects.
- c. Enumerate various drugs from different categories for angina Describe the mechanism of action, limitations, and adverse effects of nitrates for classical angina



RAN - 2006000102030002

RAN-2006000102030002

IInd M.B.B.S. Examination

February - 2021

Pharmacology : Paper - II (Set - III)

Time: 2 Hours]

[Total Marks: 40

सूचना : / Instructions

(1)

नीचे दृष्टावित निशानीवाणी विगतो उत्तरवली पर अवश्य लभवी.
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Name of the Examination:
IInd M.B.B.S.

Name of the Subject :
Pharmacology : Paper - II (Set - III)

Subject Code No.: 2006000102030002

Seat No.:

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Student's Signature

Section - I

Q. 1. Answer the following.

[1 * 10 = 10]

- Enumerate four side effects of Aminoglycosides?
- Explain why sulfacetamide is the preferred sulfonamide for topical administration in the eye?
- Mention two advantages of the Bupivacaine over lignocaine as local anesthetic in prolonged anesthesia.
- Explain two pharmacological basis of use of morphine in patient of myocardial infarction.
- Explain why both the oxytocin and ergometrine are not used for abortion?
- What is 'relapse' in cases of malaria? How will you prevent it?
- Name two antibiotics active against Pseudomonas infection.
- Give two reasons for not preferring Lithium for treatment of depression.
- Mention two reasons for which a person is prohibited to drive after alcohol drink.
- Give reason why Vit D but not parathyroid hormone is used for treatment and prevention of rickets.

Q. 2. Answer any four of the following.

[2 * 4 = 8]

- a. Explain the pharmacological basis for combining Carbidopa with Levodopa in treatment of Parkinsonism.
- b. Describe the pharmacological basis of using the Iodides in pre-operative preparation of patients undergoing thyroidectomy.
- c. Describe with suitable examples the indications for combination of antibiotics in therapeutics.
- d. Enumerate various drugs from different categories useful in treatment of amoebiasis.
- e. What is MIC (Minimum Inhibitory Concentration)? Explain Post antibiotic effect with appropriate example.

Section - II

Q. 3. Answer any four of the following.

[3 * 4 = 12]

- a. Enlist various macrolides. Describe in detail the difference between older and newer macrolides.
- b. Classify anti-leprosy drugs. Describe Pharmacotherapy of multibacillary leprosy.
- c. Classify various sedative hypnotics agents. Describe mechanism of action and advantages of newer non-benzodiazepines compounds.
- d. Classify various NSAIDs (Non-Steroidal Anti-inflammatory Drugs). Describe uses of Aspirin with pharmacological basis of each use you mention.
- e. Describe various types of oral contraceptives. What is the rationale of combination of estrogen and progesterone for contraception?

Q. 4. Answer any two of the following.

[5 * 2 = 10]

- a. Classify oral anti-diabetic drugs. Explain the mechanism of action, adverse effects and uses of biguanides (metformin).
- b. Enumerate the first line and the second line drugs for treatment of tuberculosis (classify antitubercular drugs). Write the mechanism of action, uses and adverse effects of rifampicin. Write the short course regimen for TB.
- c. Enumerate various drugs/agents from different categories showing abuse/addiction potential. Briefly describe the drug therapy of two very commonly prevalent addictions in society.



RAN - 2006000102020001

RAN-2006000102020001

IInd M.B.B.S. Examination

February - 2021

Paper-I [Microbiology]

(General microbiology, Immunology & Parasitology)

Time: 2 Hours]

[Total Marks: 40

सूचना : / Instructions

(1)

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Name of the Examination:
IInd M.B.B.S.

Name of the Subject :
Paper-I [Microbiology]
(General microbiology, Immunology & Parasitology)

Subject Code No.: 2006000102020001

Seat No.:

Student's Signature

(2) Answer to the point.

(3) Draw a diagram whenever necessary.

Section: I

Q:1 Long Question.

(08)

1. Enumerate motile organism. Describe structure and arrangement of flagella and write the techniques of detection of flagella.

(OR)

1. Draw labeled diagram of bacterial anatomy. Discuss the structural and functional details of bacterial capsule.

RAN-2006000102020001]

[1]

[P.T.O.] P4757

Q: 2 Write notes on any three. (12)

1. Write definition and characteristics of an antigen.
2. Biological functions of complement.
3. What is autoimmunity? Discuss the various mechanism of autoimmunity.
4. Define hypersensitivity and write in details about type IV hypersensitivity.
5. Incineration.

Section: II

Q: 3 Write notes on any two. (10)

1. Define protozoa. Write their distinguishing features.
2. Describe Pathogenecity and laboratory diagnosis of lymphatic filariasis.
3. Enumerate trematodes. Life cycle of schistoma haematobium.

Q: 4 Write in short (1-2 sentences). (10)

1. Write two important function of IgM.
 2. Two name of carcinogenic parasites.
 3. Cold sterilization.
 4. Write two uses of monoclonal antibodies.
 5. Paradoxical carrier.
 6. Define complement.
 7. Enlist three selective media and its use.
 8. Enumerate different types of infection.
 9. Parasites demonstrated in peripheral blood
 10. Characteristics of Hyadatid fluid
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RAN - 2006000102020002

RAN-2006000102020002

IInd M.B.B.S. Examination

February - 2021

Microbiology Paper - II

(Systemic Bacteriology, Virology, Mycology and Clinical Microbiology)

Time: 2 Hours]

[Total Marks: 40

સૂચના : / Instructions

(1)

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Fill up strictly the details of signs on your answer book

Name of the Examination:
IInd M.B.B.S.

Name of the Subject :
Microbiology Paper - II (Systemic Bacteriology, Virology, Mycology and Clinical Microbiology)

Subject Code No.: 2006000102020002

Seat No.:

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Student's Signature

(2) Answer to the point.

(3) Draw diagrams wherever necessary.

Section I

Q. 1. Long question

(08 Marks)

Describe in detail the laboratory diagnosis and antigenic structure of Salmonella Typhi.

OR

Classify the Mycobacteria. Discuss the laboratory diagnosis of pulmonary TB.

Q.2. Write notes on (any THREE)

(12 Marks)

- Complications of measles.
- Dengue virus.

RAN-2006000102020002]

[1]

[P.T.O.]

P4758

- c) Morphology of Human Immunodeficiency Virus (HIV).
- d) Differentiating features of killed and live polio vaccine.

Section II

Q.3. Write notes on (any TWO): (10MARKS)

- a) Classification of fungi.
- b) Histoplasmosis.
- c) Rhinosporidiosis.

Q.4. Write in short (1-2 Sentences): (10 MARKS)

- a) Name 2 fungi responsible for mycotoxicosis.
 - b) Modes of transmission of healthcare associated infection.
 - c) Name 2 different species of Aspergillus.
 - d) How Zika virus disease is transmitted?
 - e) Name 2 selective media used for vibrio
 - f) Satellitism
 - g) Nagler reaction
 - h) Give examples of asexual spore.
 - i) How to determine size of viruses?
 - j) Name 2 bacterial organisms responsible for non-gonococcal urethritis.
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RAN - 2006000102010001

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Second Year M. B. B. S. Examination

February - 2021

Pathology: Paper - I

Time: 2 Hours]

[Total Marks: 40

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:
Second Year M. B. B. S.

Name of the Subject :
Pathology: Paper - I

Subject Code No.: 2006000102010001

Seat No.:

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Student's Signature

2. Figures on right indicates full marks.
3. Draw illustrative diagrams wherever necessary.
4. Write legibly.

SECTION-I

1. Answer to the point (Any 5 out of 6) (05)
 - a) Use of Frozen section.
 - b) Enumerate labile cells.
 - c) Enumerate two cellular adaptations with example.
 - d) Define infarction.
 - e) Draw two pathological giant cells.
 - f) Write two names of DNA oncogenic viruses.

2. **Answer in Short: (Any 3 out of 4)** (15)
- a) Paraneoplastic syndrome.
 - b) Define necrosis. Describe types of necrosis with their morphology.
 - c) Growth factors in repair.
 - d) Pathogenesis of septic shock.

SECTION-II

3. **Answer in short: (Any 2 out of 3)** (10)
- a) Mismatched blood transfusion Reactions.
 - b) Define autoimmunity and classification of autoimmune diseases.
 - c) Pathological calcification.
4. **Answer in short: (Any 2 out of 3)** (10)
- a) Fine needle aspiration cytology.
 - b) Difference between kwashiorkor and marasmus.
 - c) Microscopic findings of semen analysis.
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RAN - 2006000102010002

RAN-2006000102010002

Second Year M.B.B.S. Examination

February - 2021

Pathology: Paper II

Time: 2 Hours]

सूचना : / Instructions

[Total Marks: 40

(१)

नीचे दृशविले निशानीवाणी विगतो उत्तरवही पर अवश्य लખवी.

Fill up strictly the details of signs on your answer book

Name of the Examination:

Second Year M.B.B.S.

Name of the Subject :

Pathology: Paper II

Subject Code No.: 2006000102010002

Seat No.:

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Student's Signature

- (2) Figures on the right indicates full Marks
(3) Draw illustrated diagrams wherever necessary.

SECTION-I

1. **Answer to the point: (Any 5 out of 6)** (05)
- Peripheral blood smear findings in Iron deficiency anaemia
 - Enumerate various pneumoconiosis
 - Draw an illustrated diagram of microscopic features of Fatty Liver
 - Enlist Four conditions where reticulocyte count increases.
 - What is Intussusception ?
 - Four causes of nephrotic syndrome
2. **Answer in short: (Any 3 out of 4)** (15)
- Describe autopsy findings in a case died of AIDS .
 - Fallot's Tetralogy.
 - Laboratory Findings in Megaloblastic Anemia.
 - Renal changes in Diabetes mellitus

SECTION-II

3. **Answer in short: (Any 2 out of 3)** (10)
- a) Liver Function test
 - b) Discuss the etiopathogenesis of carcinoma lung
 - c) Describe the aetio-pathogenesis, Gross and microscopy of chronic pyelonephritis.
4. **Answer in short: (Any 2 out of 3)** (10)
- a) Describe distinguishing features of Crohn's Disease and Ulcerative Colitis.
 - b) Discuss the etiopathogenesis and pathology of carcinoma breast.
 - c) Multiple myeloma.
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RAN - 2006000102040001

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IInd M.B.B.S. Examination

February - 2021

Forensic Medicine and Toxicology

Time: 2 Hours]

[Total Marks: 40

सूचना : / Instructions

(1)

नीचे दृष्टविले निशानीवाणी विगतो उत्तरवली पर अवश्य लभवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

IInd M.B.B.S.

Name of the Subject :

Forensic Medicine and Toxicology

Subject Code No.: 2006000102040001

Seat No.:

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Student's Signature

- (2) Answer each section in separate answer book.
(3) Illegible answers will not fetch any marks.

SECTION - I

1. **Describe in detail.** (1 × 6 = 06)
Define Identity. Discuss estimation of age from dental examination and ossification centers.
2. **Write short notes on (Any TWO).** (3 × 2 = 06)
a. Cartridge
b. Skull fractures
c. Methods and complications of criminal abortion.
3. **Write answer in ONE OR TWO sentences.** (1 × 8 = 08)
a. Graze Abrasion
b. Incest
c. Casper dictum
d. Dead bom
e. Diatoms
f. Precipitated labour
g. Saponification
h. Lynching

SECTION - II

4. **Describe in detail.** (1 × 6 = 06)
Classify cerebral poisons. Write symptoms, signs, treatment and medico legal importance of Datura poisoning.
5. **Write short notes on. (Any TWO)** (3 × 2 = 06)
- Carbon monoxide poisoning
 - Sulphuric acid poisoning
 - Strychnos Nux Vomica poisoning
6. **Write answer in ONE OR TWO sentences.** (1 × 8 = 08)
- | | |
|----------------------|--|
| a. Res Ipsa Loquitor | e. Drug habituation |
| b. Hallucination | f. Lucid interval |
| c. Conduct money | g. Contraindications of Gastric lavage |
| d. Desferrioxamine | h. Medico legal aspects of marking nut |
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