

Paper Code : 12005

B.D.S. Second Year Examination February-2018

General and Dental Pharmacology & Therapeutics

Time : Three Hours

Maximum Marks : 70

Note : Attempt all questions. Draw neat labelled diagram wherever necessary.

Part-A

Marks : 35

Q. No. 1. Classify antihypertensive drugs. Write pharmacological actions, uses and ADR of Atenolol.

15 Marks

Q. No. 2. Write pharmacotherapy of peptic ulcer.

15 Marks

Q. No. 3. Write short notes on the following :

1 Mark Each

(a) Mouthwashes

(b) Drugs for gingivitis

(c) Vitamin C

(d) Prednisolone

(e) Halothane

..2..

B/C

Part-B

Marks : 35

Q. No. 1. Classify antidiabetic agents. Discuss in detail pharmacology of oral anti-diabetic agents.

15 Marks

Q. No. 2. Write short notes on the following :

5 Marks Each

- (a) Quinolone and fluoroquinolones
- (b) Drugs used for hyperacidity
- (c) Styptics and systemic coagulants

Q. No. 3. Choose the correct answer :

1 Mark Each

(a) Superinfection:

- (i) May be caused by use of broad spectrum antibacterials
- (ii) is infection of C.N.S.
- (iii) is caused by a virus
- (iv) is infection of supracondylar region

(b) In methanol poisoning we can use :

- (i) Diuretics
- (ii) CNS stimulants
- (iii) Physostigmine
- (iv) Ethyl alcohol

(c) Ethambutol should not be used in children because :

- (i) Causes liver dysfunction
- (ii) May cause optic neuropathy
- (iii) May cause oto-nephrotoxicity
- (iv) May cause cardiomyopathy

(d) Sulfonyl ureas act by :

- (i) Stimulating glucagon secretions
- (ii) influence insulin secretions
- (iii) influence cell wall synthesis
- (iv) inhibiting insulin release

(e) The following is not an analgesic :

- (i) Dextropropoxyphene
- (ii) Tramadol
- (iii) Pentazocine
- (iv) Burpoxine

Paper Code : 12005

BDS 2nd Year

University Main Examination – 2018

General and Dental Pharmacology & Therapeutics

TIME: 3 hours

Maximum marks: 70

Note: Attempt all questions. Write answer in separate answer book for Part A and Part B. Explain your answer with appropriate diagrams.

Part A

(35 Marks)

- Q.1. Discuss in detail the factors modifying drug response with suitable examples. (15 Marks)
- Q.2. Write short notes on the following : (5 Marks Each)
- (a) Phenytoin
 - (b) Atropine
 - (c) Nitrates
- Q.3. Short Questions: (1 Mark Each)
- (a) Name two diuretics -
 - (b) Name two hypnotics
 - (c) Contraindication of Beta blockers – any two
 - (d) Uses of anticoagulants
 - (e) Any two adverse effects of opioid analgesic

Part B

(35 Marks)

- Q.1. Classify drugs used for bronchial Asthma. Describe the mechanism of action, adverse effects and uses of methyl xanthines. (15 Marks)
- Q.2. Write short notes on the following : (5 Marks Each)
- (a) Local Anaesthetics
 - (b) Selective Cox-2 inhibitors
 - (c) Antiseptics
- Q.3. Multiple Choice Questions. Choose one correct answer. (1 Mark Each)
- (a) **Cardioselective β blockers is -**
(i) Atenolol (ii) Labetalol (iii) Sotalol (iv) Propranolol
 - (b) **Which of the following is an ACE inhibitor -**
(i) Saralasin (ii) Captopril (iii) Diltiazem (iv) Atenolol
 - (c) **Drug of choice in morphine withdrawal syndrome is -**
(i) Diazepam (ii) Naloxone (iii) Methadone (iv) Morphine
 - (d) **A patient suffering from candidiasis should be given as first line therapy -**
(i) Nystatin (ii) Idoxuridine (iii) Griseofulvin (iv) Ketoconazole
 - (e) **Red coloured urine may be observed with intake of -**
(i) Rifampicin (ii) Phenol red (iii) Dopamine (iv) Tincture Cardamon

Paper Code : 12005
BDS Second Year
University Supplementary Examination – February 2019
General and Dental Pharmacology & Therapeutics

Paper Second

TIME: 3 hours

Maximum marks: 70

Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B.

Part A

(35 Marks)

- Q.1. Enumerate the various routes of drug administration. Compare and contrast the advantages of Oral vs. I.V. drug administration. **(15 Marks)**
- Q.2. Write short notes on the following : **(5 Marks Each)**
- (a) Lignocaine
 - (b) Pharmacotherapy of Organophosphorus poisoning
 - (c) Antihistaminics and their side effects
- Q.3. Attempt all questions. **(1 Mark Each)**
- (a) Name two drugs used in pre-anaesthetic medication
 - (b) Name two Anticholinergic drugs
 - (c) Name two side effect of Aspirin
 - (d) Name two antihypertensive drugs
 - (e) Name two Anti-emetic drugs

Part B

(35 Marks)

- Q.1. Classify Antitubercular drugs. Discuss in brief about mechanism of action, uses and side effects of Rifampicin. **(15 Marks)**
- Q.2. Write short Notes on the following: **(5 Marks Each)**
- (a) Sulphonylureas
 - (b) BAL
 - (c) Vit. K

Conti..2..

Q.3. Multiple Choice Questions.

(1 Mark Each)

- (a) **Mifepristone is used in following conditions EXCEPT:**
(i) Cushing's Syndrome (ii) Post-coital contraceptive
(iii) Cervical ripening (iv) Uterine Fibroids
- (b) **Aminoglycosides causes following toxicities EXCEPT:**
(i) Blockade of Neuromuscular junction (ii) Nephrotoxicity
(iii) Cochlear damage (iv) Stroke
- (c) **ALL are Anti-thyroid drugs EXCEPT:**
(i) Propylthiouracil (ii) Methimazole
(iii) Carbimazole (iv) Carbamazepine
- (d) **Thiamine is used in treatment of :**
(i) Hartnup's disease (ii) Acute alcoholic intoxication
(iii) Treatment of Pellagra (iv) None of the above
- (e) **Microtubule damaging agent is:**
(i) Fludarabine
(ii) Paclitaxel
(iii) Cytabine
(iv) Vinorelbine

Paper Code : 12005
BDS Second Year
University Main/Supple. Examination – November 2020
General and Dental Pharmacology & Therapeutics

Paper Second

TIME: 3 hours

Maximum marks: 70

Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.

Part A

(35 Marks)

- Q.1. Define bioavailability. Discuss all the factors affecting the bioavailability of drugs given by various routes. (15 Marks)
- Q.2. Write short notes on the following : (5 Marks Each)
- (a) Proton pump inhibitors
 - (b) Lignocaine as a local anesthetic
 - (c) Selective cox-2 inhibitors
- Q.3. Multiple Choice questions. (1 Mark Each)
- (a) Which of the following is a K^+ channel opener?
- | | |
|-----------------|----------------|
| (i) Nifedipine | (ii) Enalapril |
| (iii) Minoxidil | (iv) Atenolol |
- (b) Loop diuretic acts on -
- | | |
|-----------|------------------------------------|
| (i) PCT | (ii) Thick ascending loop of henle |
| (iii) DCT | (iv) Collecting duct |
- (c) Which of the following is not a mood stabilizer?
- | | |
|-----------------|--------------------|
| (i) Lithium | (ii) Carbamazepine |
| (iii) Valproate | (iv) Fluoxetine |
- (d) Which of the following is a prodrug?
- | | |
|------------------|--------------------|
| (i) Clonidine | (ii) Enalapril |
| (iii) Salmeterol | (iv) Acetazolamide |
- (e) In acute morphine poisoning, the drug of choice is -
- | | |
|-----------------|---------------|
| (i) Atropine | (ii) Naloxone |
| (iii) Methadone | (iv) Alcohol |

Conti..2..

Part B**(35 Marks)**

- Q.1. Classify the beta lactam antibiotic drugs. Write the mechanism of action, adverse effects and therapeutic uses of penicillin-G. **(15 Marks)**
- Q.2. Write short Notes on the following: **(5 Marks Each)**
- Second generation antihistaminics
 - Metronidazole
 - Treatment of oral candidiasis
- Q.3. Multiple Choice Questions. **(1 Mark Each)**
- Which of the following is not an enzyme inducer?**

(i) Rifampicin	(ii) Phenytoin
(iii) Cimetidine	(iv) Phenobarbitone
 - Which of the following act by inhibiting DNA gyrase?**

(i) Penicillins	(ii) Flouroquinolones
(iii) Aminoglycosides	(iv) Macrolides
 - Which of the following drug is alpha-glucosidase inhibitor?**

(i) Pioglitazone	(ii) Metformin
(iii) Miglitol	(iv) Nateglinide
 - Steroids are contraindicated in all, except -**

(i) Diabetes mellitus	(ii) Eczematous skin disease
(iii) Hypertension	(iv) Peptic ulcer disease
 - Acyclovir is given in -**

(i) Enteric fever	(ii) Herpes infection
(iii) Malaria	(iv) Bacillary dysentery

Paper Code : 12005
BDS Second Year
University Main/Supple. Examination – November 2020
General and Dental Pharmacology & Therapeutics
Paper Second

TIME: 3 hours

Maximum marks: 70

Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.

Part A

(35 Marks)

Q.1. Define bioavailability. Discuss all the factors affecting the bioavailability of drugs given by various routes.

(15 Marks)

Q.2. Write short notes on the following :

(5 Marks Each)

- (a) Proton pump inhibitors
- (b) Lignocaine as a local anesthetic
- (c) Selective cox-2 inhibitors

Q.3. Multiple Choice questions.

(1 Mark Each)

(a) Which of the following is a K⁺ channel opener?

- (i) Nifedipine
- (ii) Enalarril
- (iii) Minoxidil
- (iv) Atenolol

(b) Loop diuretic acts on -

- (i) PCT
- (ii) Thick ascending loop of henle
- (iii) DCT
- (iv) Collecting duct

(c) Which of the following is not a mood stabilizer?

- (i) Lithium
- (ii) Carbamazepine
- (iii) Valproate
- (iv) Fluoxetine

(d) Which of the following is a prodrug?

- (i) Clonidine
- (ii) Enalapril
- (iii) Salmeterol
- (iv) Acetazolamide

(e) In acute morphine poisoning, the drug of choice is -

- (i) Atropine
- (ii) Naloxone
- (iii) Methadone
- (iv) Alcohol

Conti..2..

Part B**(35 Marks)**

- Q.1. Classify the beta lactam antibiotic drugs. Write the mechanism of action, adverse effects and therapeutic uses of penicillin-G. **(15 Marks)**
- Q.2. Write short Notes on the following: **(5 Marks Each)**
- (a) Second generation antihistaminics
 - (b) Metronidazole
 - (c) Treatment of oral candidiasis
- Q.3. Multiple Choice Questions. **(1 Mark Each)**
- (a) Which of the following is not an enzyme inducer?**
- (i) Rifampicin
 - (ii) Phenytoin
 - (iii) Cimetidine
 - (iv) Phenobarbitone
- (b) Which of the following act by inhibiting DNA gyrase?**
- (i) Penicillins
 - (ii) Flouroquinolones
 - (iii) Aminoglycosides
 - (iv) Macrolides
- (c) Which of the following drug is alpha-glucosidase inhibitor?**
- (i) Pioglitazone
 - (ii) Metformin
 - (iii) Miglitol
 - (iv) Nateglinide
- (d) Steroids are contraindicated in all, except -**
- (i) Diabetes mellitus
 - (ii) Eczematous skin disease
 - (iii) Hypertension
 - (iv) Peptic ulcer disease
- (e) Acyclovir is given in -**
- (i) Enteric fever
 - (ii) Herpes infection
 - (iii) Malaria
 - (iv) Bacillary dysentery

Paper Code : 12005
University Supplementary Examination – February 2021
BDS Second Year
General and Dental Pharmacology & Therapeutics
Second Paper

TIME: 3 hours

Maximum marks: 70

Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B.

Part A

(35 Marks)

Q.1. Classify the nonsteroidal anti-inflammatory drugs. Write the various pharmacological actions, adverse drug reactions and uses of "Aspirin".

(15 Marks)

Q.2. Write short notes on the following :

(5 Marks Each)

- (a) Second generation antihistaminics
- (b) Proton pump inhibitors
- (c) Local anesthetic agents

Q.3. Multiple Choice Questions.

(1 Mark Each)

(a) **All are the adverse drug effects of corticosteroids except-**

- (i) Muscular weakness
- (ii) Hypoglycemia
- (iii) Hyperglycemia
- (iv) Peptic ulcer

(b) **Which of the following is cell wall synthesis inhibitor?**

- (i) Cycloserine
- (ii) Gentamicin
- (iii) Clindamycin
- (iv) Rifampicin

(c) **Morphine is contraindicated in-**

- (i) Postoperative pain
- (ii) Acute LVF
- (iii) Preanesthetic medication
- (iv) Head injury

(d) **Which is used as an anticonvulsant?**

- (i) Clobazam
- (ii) Flurazepam
- (iii) Triazolam
- (iv) Nitrazepam

(e) **Which of the following drug is an enzyme inhibitor-**

- (i) Phenytoin
- (ii) Phenobarbitone
- (iii) Rifampicin
- (iv) Erythromycin

Conti..2..

Part B**(35 Marks)**

Q.1. Classify the drugs used in Type-2 diabetes mellitus. Describe the mechanism of action, adverse effects and uses of biguanides. **(15 Marks)**

Q.2. Write short Notes on the following: **(5 Marks Each)**

- (a) Vitamin - D
- (b) Pencillins
- (c) Treatment of Gum Abscess

Q.3. Multiple Choice Questions. **(1 Mark Each)**

(a) Which drug is used in treatment of hypertension?

- (i) Salbutamol
- (ii) Salmeterol
- (iii) Metoprolol
- (iv) Noradrenaline

(b) Which is the adverse effects of ace inhibitors?

- (i) Hyperkalemia
- (ii) Hypertension
- (iii) Hypokalemia
- (iv) Angina

(c) Which one is DPP-4 inhibitor?

- (i) Dapaglifozin
- (ii) Acarbose
- (iii) Glipizide
- (iv) Sitagliptin

(d) Which one is injectable local anesthetic?

- (i) Benzocaine
- (ii) Tetracaine
- (iii) Procaine
- (iv) Cocaine

(e) Which one is antipsychotic drug?

- (i) Chloroquine
- (ii) Chlorpromazine
- (iii) Carbamazepine
- (iv) Clofazimine

Paper Code : 12005
University Examination – August 2021
BDS Second Year
General and Dental Pharmacology & Therapeutics
Paper Second

TIME: 3 hours

Maximum marks: 70

Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.

Part A

(35 Marks)

Q.1. Classify the drugs used in diabetes mellitus (Type-2). Describe the mechanism of action, uses and adverse effects of biguanides.

(15 Marks)

Q.2. Write short notes on the following :

(5 Marks Each)

- (a) Biotransformation of drugs
- (b) Low molecular weight heparin
- (c) Fluoroquinolones

Q.3. Multiple Choice Questions.

(1 Mark Each)

(i) Which of the following is protein synthesis inhibitor -

- (a) Penicillin
- (b) Clindamycin
- (c) Bacitracin
- (d) Vancomycin

(ii) All are contraindications of corticosteroids except -

- (a) Peptic ulcer
- (b) Rheumatoid arthritis
- (c) Osteoporosis
- (d) Diabetes mellitus

(iii) All are the adverse drug effects of phenytoin except -

- (a) Hirsutism
- (b) Ataxia
- (c) Hypersensitivity
- (d) Epilepsy

(iv) Morphine is used in -

- (a) Head injury
- (b) Bronchial asthma
- (c) Acute LVF
- (d) Undiagnosed abdominal pain

(v) Which of the following drug is an enzyme inducer? -

- (a) Ketoconazole
- (b) Cimetidine
- (c) Rifampicin
- (d) Omeprazole

Conti..2..

Part B**(35 Marks)**

- Q.1. Classify and describe the various routes of drug administration. **(15 Marks)**
- Q.2. Write short Notes on the following: **(5 Marks Each)**
- (a) Metronidazole
 - (b) Chelating agent
 - (c) Treatment of aphthous ulcer
- Q.3. Multiple Choice Questions. **(1 Mark Each)**
- (i) **Which drug is used in treatment of angina -**
- (a) Isosorbide dinitrate
 - (b) Amrinone
 - (c) Digoxine
 - (d) Adrenaline
- (ii) **All are adverse effects of ace inhibitors except -**
- (a) Hypotension
 - (b) Hyperkalemia
 - (c) Dry cough
 - (d) Hypertension
- (iii) **All are surface local anesthetics except -**
- (a) Cocaine
 - (b) Tetracaine
 - (c) Lidocaine
 - (d) Prilocaine
- (iv) **Which one is antipsychotic drug?**
- (a) Chlorpromazine
 - (b) Carbamazepine
 - (c) Clozapemine
 - (d) Chlorquine
- (v) **Which one is used as an antidepressant drug?**
- (a) Haloperidol
 - (b) Diazepam
 - (c) Sertaline
 - (d) Chlorpromazine

Paper Code : 12005
University Supplementary Examination – December 2021
BDS Second Year
General and Dental Pharmacology & Therapeutics
Paper Second

TIME: 3 hours

Maximum marks: 70

Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.

Part A

(35 Marks)

Q.1. Classify β -blockers. Discuss in detail about pharmacological actions, adverse effects and uses of propranolol.

(15 Marks)

Q.2. Write short notes on the following :

(5 Marks Each)

- (a) First line anti-tubercular drugs
- (b) Management of MI
- (c) Bioavailability

Q.3. Multiple Choice Questions.

(1 Mark Each)

(i) **Lugol's iodine contains -**

- (a) 5% iodine & 10% KI
- (b) 10% iodine & 20% KI
- (c) 10% iodine & 15% KI
- (d) 5% iodine & 15% KI

(ii) **Sumatriptan is -**

- (a) 5HT_{1D} Antagonist
- (b) 5HT_{1A} Agonist
- (c) 5HT_{1D} Agonist
- (d) 5HT_{1A} Antagonist

(iii) **Bisacodyl is -**

- (a) Bulk forming
- (b) Stool Softener
- (c) Stimulant Purgative
- (d) Osmotic purgative

(iv) **Anti-Parkinsonian drug that is selective comt inhibitor -**

- (a) Entacapone
- (b) Ropinirole
- (c) Pergolide
- (d) Pramipexole

(v) **Drug of choice for mushroom poisoning is -**

- (a) Atropine
- (b) Physostigmine
- (c) Adrenaline
- (d) Carbachol

Conti..2..

Part B

(35 Marks)

- Q.1. Discuss in detail about various adverse drug effects with suitable examples. (15 Marks)
- Q.2. Write short Notes on the following: (5 Marks Each)
- (a) Receptor Antagonism
 - (b) Nitrates
 - (c) Metoclopramide
- Q.3. Multiple Choice Questions. (1 Mark Each)
- (i) **Which of the following is a prodrug -**
- (a) Ampicillin
 - (b) Captopril
 - (c) Levodopa
 - (d) Phenytoin
- (ii) **Ethosuximide can be used for the treatment of -**
- (a) Generalised tonic clonic seizures
 - (b) Absence seizures
 - (c) Complex seizures
 - (d) Myoclonic seizures
- (iii) **Most common route of administration of insulin is -**
- (a) Intradermal
 - (b) Subcutaneous
 - (c) Intramuscular
 - (d) Intravenous
- (iv) **NSAID lacking anti-inflammation action is -**
- (a) Paracetamol
 - (b) Ibuprofen
 - (c) Diclofenac sodium
 - (d) Celecoxib
- (v) **The short acting anticholinesterase drug is -**
- (a) Edrophonium
 - (b) Demecarium
 - (c) Dyflos
 - (d) Ecothiophate

Paper Code : 12005
University Examination – August-September 2022
BDS Second Year
General and Dental Pharmacology & Therapeutics
Paper Second

TIME: 3 hours

Maximum marks: 70

Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.

Part A

(35 Marks)

Q.1. Discuss in brief various routes of drug administration.

(15 Marks)

Q.2. Write short notes on the following :

(5 Marks Each)

(a) Pre-Anaesthetic medication

(b) Styptics

(c) Anaphylactic shock

Q.3. Multiple Choice Questions.

(1 Mark Each)

(I) **Drug of choice for treatment of acute organophosphate poisoning is-**

(a) Atropine

(b) Pralidoxime

(c) Neostigmine

(d) d-tubocurarine

(II) **Esomeprazole acts by inhibiting -**

(a) H^+K^+ ATPase Pump

(b) N^+NQ^+ ATPase Pump

(c) H^+ Pump

(d) None of the above

(III) **Antagonist of benzodiazepine is-**

(a) Naltrexone

(b) Flumazenil

(c) Naloxone

(d) N-acetyl-cysteine

(IV) **Anti-thyroid drug with the most rapid onset of anti-thyroid action is -**

(a) I^{131}

(b) Sodium Iodine

(c) Methimazole

(d) Propylthiouracil

(V) **Therapeutic index is an assessment of:**

(a) Potency of a drug

(b) Onset of action

(c) Duration of action

(d) Margin of safety

Conti..2..

Part B**(35 Marks)**

- Q.1. Classify NSAIDs. Discuss in brief about mechanism of action, pharmacological actions, adverse effects and uses of aspirin. **(15 Marks)**
- Q.2. Write short Notes on the following: **(5 Marks Each)**
- (a) Heparin
 - (b) Sulfonylureas
 - (c) Pharmacotherapy of oral candidiasis
- Q.3. Multiple Choice Questions. **(1 Mark Each)**
- (I) Drug of choice in drug induced Parkinsonism is -**
- (a) Levodopa
 - (b) Benzhexol
 - (c) Amanatidine
 - (d) Carbidopa
- (II) Side effects of steroids are all except -**
- (a) Hypoglycemia
 - (b) Hypertension
 - (c) Psychosis
 - (d) Growth retardation
- (III) Which of the following is aspirin?**
- (a) Methyl salicylate
 - (b) Para-amino benzoic acid
 - (c) Para-amino salicylic acid
 - (d) Acetyl salicylic acid
- (IV) Cholinomimetics are not used in-**
- (a) Glaucoma
 - (b) Myasthenia gravis
 - (c) Postoperative atomy
 - (d) Partial heart block
- (V) Drug not used in H.pylori is -**
- (a) Metronidazole
 - (b) Omeprazole
 - (c) Mosapride
 - (d) Amoxicillin