

51211

Second B.P.Th. (2012) Examination, Summer 2017
PHARMACOLOGY

Total Duration : 2 Hours

Total Marks : 40

- Instructions:**
- 1) Use **blue/black** ball point pen only.
 - 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) **All questions are compulsory.**
 - 4) The number to the **right** indicates **full marks**.
 - 5) Draw diagrams **wherever necessary**.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) **Use a common answerbook for all Sections.**

1. Short answer question (any five out of six) : (5×3=15)
 - a) Write on therapeutic uses of Atropine.
 - b) What is the rationale of combining levodopa-carbidopa in treatment of parkinsonism ?
 - c) Write mechanism of action and 2 therapeutic indications of Ampicillin.
 - d) Name 2 pro-kinetic agents. Write their mechanism of action.
 - e) What is biological half life ? Write its clinical significance.
 - f) Write short course chemotherapy for a patient suffering from pulmonary tuberculosis.

2. Short answer question (any five out of six) : (5×5=25)
 - a) Classify drugs used in treatment of hypertension. Write mechanism of action and adverse effects of ACE-Is.
 - b) Enumerate insulin preparations. Explain the therapeutic uses and adverse effects of them.
 - c) Explain the pharmacological actions and therapeutic uses of paracetamol. Add on treatment of paracetamol poisoning.
 - d) Classify various routes of drug administration. Mention merits and demerits of parenteral route of drug administration.
 - e) Define Adverse Drug Reactions (ADRs). Discuss various types of ADRs with appropriate example.
 - f) Classify antiasthmatics. Write treatment of status asthmatics in brief.



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1. Short answer question (any five out of six) : (5×3=15)
- a) Define Bioavailability of a drug. Mention four factors affecting bioavailability.
 - b) List aminoglycosides. Write in brief about its Pharmacological basis for use in infections. Mention two uses and two adverse effects.
 - c) Classify benzodiazepines. Write three therapeutic uses and two adverse effects of diazepam.
 - d) Mention drugs used in treatment of Rheumatoid arthritis. What is the rationale for use of methotrexate in the treatment of Rheumatoid arthritis ?
 - e) Enumerate glucocorticosteroids. Write three therapeutic uses and three adverse effects.
 - f) Mention drugs used in Acid peptic diseases. Write the rationale for use of action and therapeutic uses of Omeprazole.

P.T.O.



2. Short answer question (any five out of six) :

(5×5=25)

- a) Classify drugs used in hypertension . Write the rationale for its use in hypertension. Mention three therapeutic uses and two adverse effects of (Angiotensin Converting Enzyme) ACE-inhibitors.
 - b) Classify drugs used in Bronchial asthma. Mention therapeutic indications, routes of administration and adverse effects of Salbutamol.
 - c) Classify opioid analgesic drugs . Write the three therapeutic uses , three adverse effects and two contraindications for Morphine.
 - d) Classify first line anti tubercular drugs. Write a note on therapeutic uses and adverse effects of Rifampicin.
 - e) Classify skeletal muscle relaxants. Write therapeutic uses, adverse effects and uses of succinylcholine.
 - f) Name the drugs used in the treatment of organophosphorous poisoning giving rationale for their use.
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- 7) Use a common answer book for all sections.

Short answer question (any five out of six):

(5x3=15)

- a) Mention advantages of benzodiazepines over barbiturates.
- b) Mention drugs used in Organophosphorous poisoning with its rationale.
- c) Write a short note on mucolytics.
- d) Discuss mechanism of action of Omeprazole. Mention its therapeutic uses.
- e) Mention drugs used in treatment of asthma. Mention two adverse effects of any drug.
- f) Write the Mechanism of analgesic action of NSAIDs and two adverse effects.

Short answer question (any five out of six):

(5x5=25)

- a) Enumerate four factors affecting the bioavailability of a drug with suitable examples.
- b) Classify antiepileptic drugs. Discuss the therapeutic uses and adverse reaction of Phenytoin.
- c) Classify antihypertensive drugs, mention therapeutic uses of Angiotensin Converting Enzyme-inhibitors.
- d) Classify oral anti diabetic drugs. Discuss the indications of Insulin in Type 2 diabetes mellitus.
- e) Classify penicillins. Discuss the advantages of amoxicillin and clavulanic acid combination.
- f) Classify drugs used for treatment of Rheumatoid arthritis. Discuss any one disease modifying agent with respect to mechanism of action and adverse reactions.



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Short answer question (any five out of six) :

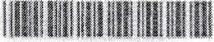
(5x3=15)

- a) Define Bioavailability. Write factors affecting it.
- b) Define antitussives. Write classification of antitussive drugs.
- c) Write pharmacotherapy of myasthenia gravis.
- d) Write drug therapy for status asthmaticus.
- e) Write drug treatment of multibacillary leprosy.
- f) State mechanism of action of succinylcholine.

Short answer question (any five out of six) :

(5x5=25)

- a) Classify antiepileptic drugs. Write mechanism of action and uses of carbamazepine.
 - b) Classify opioid analgesics. Write actions of morphine.
 - c) Classify antiemetic drugs. Write differences between domperidone and metoclopramide.
 - d) Classify antianginal drugs. Write mechanism of action and adverse effects of nitrates.
 - e) Write mechanism of action, uses and adverse effects of aminoglycosides.
 - f) Classify corticosteroids. State their uses and adverse effects.
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1. Short answer question (**any five** out of six) : (5×3=15)
 - a) Enumerate parenteral routes of administration of drugs. Give examples.
 - b) What is a hypnotic drug ? Write important uses of diazepam.
 - c) What are anticholinesterases ? Write three differences between neostigmine and physostigmine.
 - d) Enumerate anti platelet agents. How do they prevent agglutination of platelets ?
 - e) Write drugs used in megaloblastic anemia. How do they act ?
 - f) Write important uses and adverse effects of amoxicillin.

 2. Short answer question (**any five** out of six) : (5×5=25)
 - a) Which drugs are used in Parkinson's disease ? Why L-dopa is combined with carbidopa ?
 - b) Enumerate NSAIDs. Write therapeutic uses of Aspirin.
 - c) Enlist beta blockers. Write mechanism of antihypertensive effect and important uses of propranolol.
 - d) Enumerate glucocorticoids. What are their therapeutic uses ?
 - e) Enumerate bronchodilators. Write the drug treatment of status asthmaticus.
 - f) Classify diuretics. What are indications for furosemide ?
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