

# B. Pharm / Sem - IV (BSGS)

## Sub:- Pharmacology

Q.P. Code : 527901

(3 Hours)

[ Total Marks : 70

- N.B. : (1) All questions are compulsory.  
(2) Figures-to the right indicate full marks

1. (a) Answer the following:

- (i) "Biotransformation is a process of detoxification in its true sense". Justify the statement.
- (ii) Define:
  - (1) Pharmacokinetics
  - (2) Pharmacodynamics
- (iii) Give the mechanism of action of organic nitrates
- (iv) Classify cholinergic receptors giving suitable examples of agonist drugs.
- (v) What are antihypertensive drugs, classify with examples.
- (vi) Classify anti-adrenergic drugs giving examples.

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- (b) (i) Enlist factors affecting drug action.
- (ii) Define mutagenicity
- (iii) Give mechanism of action of loop diuretic.

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2. (a) Answer any **two** of the following:

- (i) What are the various routes of administration? Write briefly on parenteral route of administration.
- (ii) What are phase II reactions? Classify with examples and write a brief note on any one reaction.
- (iii) Explain renal route of excretion of a drug.

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(b) Answer any **one** of the following:

- (i) Explain carcinogenicity and classify carcinogens with examples.
- (ii) What is hepatotoxicity? Give suitable examples.

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3. (a) Answer any **two** of the following:

- (i) What are GPC receptors? Explain Adenyl Cyclase: cAMP effector pathway.
- (ii) What is enzyme induction? Give examples of drugs which are potent enzyme inducers.
- (iii) Write a short note on potency and efficacy with examples.

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3. (b) Answer any **one** of the following: 3
- (i) Give advantages of selective  $\beta$ -blockers over non-selective beta blockers.
  - (ii) What is the effect of atropine on smooth muscles and eye.
4. (a) Answer any **two** of the following: 8
- (i) What are ganglion blocking agents? Compare and contrast depolarizing and non-depolarizing agents.
  - (ii) Give the pharmacological actions of Adrenaline.
  - (iii) Describe synthesis, storage, release and metabolism of Acetylcholine.
- (b) Answer any one of the following: 3
- (i) Write a note on cholinomimetic alkaloids
  - (ii) Write a brief note on isoprenaline.
5. (a) Answer any **two** of the following: 8
- (i) Classify antiarrhythmic agents and give the role of calcium channel blockers in treating arrhythmia.
  - (ii) Write a short note on fibrates in antihyperlipidemic therapy.
  - (iii) Classify anti-anginal drugs. Add a note on combination therapy used in treatment of angina.
- (b) Answer any **one** of the following: 3
- (i) Describe the mechanism of action of digitalis and state the toxicity of digitalis.
  - (ii) Write a short note on sodium channel blockers with examples.
6. (a) Answer any **two** of the following: 8
- (i) Classify adrenergic receptors. Give their location and effects with examples of agonists and antagonists.
  - (ii) Write a short note on thiazide diuretics
  - (iii) Discuss the therapeutic uses and complications of diuretics
- (b) Answer any **one** of the following: 3
- (i) Write a short note on Tolerance
  - (ii) How does body weight affect drug action?



Course: B. PHARM.(CBSGS)SEMESTER - IV(Prog-T9924)

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Correction:

Q3 read as All questions are compulsory

i.e

(a)

(b)

(c)

Instead of

(a)

Or

(b)

(c)

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