Printing Pages : 1 16/05/2023
Paper Code : MPL-201T A (SVSU:2022-23/R)

| Enrollment No. | | | | | | | | | | | | | |
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**M.PHARM**
**First Year (II[nd] Semester)**
**Advanced Pharmacology-II**
**Subject Code: MPL201T**

**[Time: 3:00 Hours]** **[Max. Marks: 75]**

**Note: Attempt all questions. Each questions carry equal marks.**

**Q1. Attempt any five questions** **[ 5×3=15]**

a. Define co-trimoxazole?
b. Discuss phased regimen as an oral contraceptive.
c. How is chronopharmacology important in the treatment of ulcer?
d. Define affinity and efficacy with suitable example.
e. Define pro-kinetics with suitable example?
f. Discus chloramphenicol (MOA and side effects).
g. Classify oral hypoglycemic agents.

**Q2. Attempt any five questions** **[5×3=15]**

a. Write a short note on recent advances in the treatment of Alzheimer's disease.
b. Give the pharmacology of zidovudine.
c. Discuss the pharmacology of free radicals in brief.
d. Write a brief note on molecular mechanism of thyroxin.
e. Describe drug therapy of type 2 diabetes mellitus in brief.
f. What are anabolic steroids and give their suitable example?
g. Write the classification drugs used as an ant-emetics.

**Q3. Attempt any two questions** **[2X7.5=15]**

a. Describe the recent advances in the treatment of Parkinson's disease.
b. Classify anti-tubercular drugs and describe the mechanism and side effects of isoniazid.
c. Write the classification of aminoglycosides and discuss the pharmacology of any one glycoside.

**Q4. Attempt any two questions** **[2X7.5=15]**

a. Define oral hypoglycemic and classify them. Discuss the mechanism of sulfonylureas and DPP-4 inhibitors.
b. Classify antiviral drug and describe the molecular mechanism of any one important antiviral agent.
c. Describe hormonal contraceptives (Female and male contraceptives).

**Q5. Attempt any one question** **[1X15=15**

a. Discuss about cell and biochemical mediators involved in allergy and inflammation.
b. Define peptic ulcer and explain the regulation of gastric acid secretion. Give the classification of drugs used in peptic ulcer.

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Printing Pages :1
Paper Code : MPL-202T B (SVSU:2022-23/R)
Enrollment No.

M.PHARM
First Year (II[nd] Semester)
Pharmacological & Toxicological Screening Methods-II Subject Code: MPL202T

[Time : 3:00 Hours ] [Max. Marks : 75]

**Note: Attempt all questions. Each questions carry equal marks.**

**Q1. Attempt any five questions** [ 5×3=15 ]

a. What is form 44?
b. Discuss in brief about skin sensitization test.
c. Differentiates between pharmacokinetics and toxico-kinetics?
d. Define descriptive toxicology.
e. Write the principles of GLP?
f. What types of tests are carried out at such facilities under GLP?

**Q2. Attempt any five questions** [5×3=15]

a. Discuss OECD test guidelines for oral toxicity.
b. Give as short note on IND, and discuss its types.
c. Write a short note on acute eye irritation test.
d. Define toxicovigilance with example.
e. Define regulatory toxicology.
f. Write a short note on female reproductive toxicity studies (Segment I).

**Q3. Attempt any two questions** [2X7.5=15]

a. Describe OECD guidelines for subacute toxicity studies (oral).
b. Write a detailed note on the role of toxicokinetic evaluation in the drug development process.
c. Describe the importance of IND and its industry perspective.

**Q4. Attempt any two questions** [2X7.5=15]

a. Explain teratogenicity studies (Segment II) as per schedule Y?
b. Write the concepts and importance of safety pharmacology?
c. Write a note on alternative methods to animal toxicity testing?

**Q5. Attempt any one question** [1X15=15]

a. Discuss the OECD guidelines of good laboratory practice (GLP) in detail?
b. Explain the role of Schedule Y in toxicity studies?

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Printing Pages :1
Paper Code : MPL-203T A (SVSU:2022-23/R)

Enrollment No.

M.Pharm

I[st] Year (II Semester)Examination

Subject: Principles of Drug Discovery(MPL203T)

[Time : 3:00 Hours ] [Max. Marks : 75]

I ANSWER ANY FIVE [3×5=15]

1. Define Hit molecule.
2. Give Principles of traditional drug design.
3. What are the factors affecting drug absorption?
4. Define Quantitative structure activity relationship.
5. Define Pharmacophore mapping.
6. Enlist software used for docking studies.

II. ANSWER ANY FIVE [3×5=15]

1. Explain Hansch analysis.
2. Write about protein structures.
3. Give application of proteomics in drug discovery.
4. Define motifs.
5. Write about bioinformatics.
6. Define flexible docking .

III. ANSWER ANY TWO [7.5×2=15]

1. Explain rigid docking.
2. Give Principles of regression analysis.
3. What do you mean by Lead optimization?

IV. ANSWER ANY TWO [7.5×2=15]

1. Explains COMFA and COMSIA.
2. Give steps for De novo drug design.
3. Give role of transgenic animals in drug design.

IV. ANSWER ANY ONE [15×1=15]

1. Explain rationale of prodrug design.
2. Discuss the stages of drug discovery and development.

23/05/2023

Printing Pages :1
Paper Code :MPL-204T C (SVSU:2022-23/R)

Enrollment No.

M.PHARM

Ist YEAR, IInd SEMESTER EXAMINATION

Clinical Research and Pharmacovigilance, MPL 204T

[Time: 3:00 Hours] [Max. Marks: 75]

**Q1. Answer Any Five Questions** [3×5=15]

a) Define pharmacoepidemiology and pharmaco-economics.

b) Discuss the role and responsibility of Institutional Review Board.

c) Write a brief note on vaccine pharmacovigilance.

d) Define Pharmacovigilance.

e) Give a short note on RCT and non-RCT.

f) Write note on international Classification of disease.

**Q2. Answer Any Five Questions** [3×5=15]

a) Describe drug safety evaluation in special population.

b) Write a note on Investigator Brochure.

c) Describe PVPI in brief.

d) What is SUSAR and write the reporting time as per regulatory guidelines for investigator?

e) Write a note on Management of adverse drug reactions.

f) Write note on Helsinki.

**Q3. Answer Any Two Questions** [7.5×2=15]

a) Discuss Clinical Trial Documentation in detail.

b) Discuss the Severity and Seriousness assessment in detail.

c) Write in detail about the role of sponsor in clinical research.

**Q4. Answer Any Two Questions** [7.5×2=15]

a) Write the role of CRO in Clinical research.

b) Describe Informed consent process with detail.

c) Classify Adverse drug Reactions and write in detail about Detection and reporting methods.

**Q5. Answer Any One Question** [15×1=15]

a) Write principles of ICH and GCP guidelines related to Pharmacovigilance.

b) Explain various phases of clinical trial in detail with their importance in clinical research.