Registration no: | | | | | | | | | | |

Total Number of Pages: 01 **B.PHARM**
BP501T

5th Semester Regular / Back Examination: 2021-22
MEDCINAL CHEMISTRY II
Branch: B. Pharma
Time: 3 Hours
Max Marks: 75
Q Code: OF250

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any two from Part-C.
The figures in the right hand margin indicate marks.

Part- I

Q1	**Objective Answer Type Questions (Answer All)**	**(02×10)**
a)	Outline the synthesis and uses of Meclorethamine	**(2)**
b)	Outline the synthesis and Mechanisim of action of Acetazolamide	**(2)**
c)	Give the structure , Nomenclature and use of furosimide	**(2)**
d)	Give the structure , Nomenclature and use of Digoxin	**(2)**
e)	Give the role of Omeprazole	**(2)**
f)	Write the synthesis and use of furosemide	**(2)**
g)	Define Diuretic	**(2)**
h)	Write the MOA of pantoprazole	**(2)**
i)	What is antibiotics ,Give it's examples	**(2)**
j)	Define anti hypertensive agents , Give it's examples	**(2)**

Part- II

Q2	**Focused-Short Answer Type Questions- (Answer Any Seven)**	**(05×07)**
a)	Define H1- antagonist and write MOA and SAR of Dimenhydrinate	**(5)**
b)	Write the MOA of merclorethamine	**(5)**
c)	Define gastric proton pump inhibitor	**(5)**
d)	Define antibiotics and write about Dactinomycin	**(5)**
e)	Define antihypertensive agents and write the MOA & synthesis of methyldopa hydrochloride	**(5)**
f)	Write about dioxin and dig toxin	**(5)**
g)	Give a note about endocrine system	**(5)**
h)	Write the SAR of local anesthetics	**(5)**
i)	Write the SAR of Sildenafil	**(5)**

Part-III

Long Answer Type Questions (Answer Any Two)

Q3	What is gastric proton pump inhibitor and writ the MOA, uses and SAR of omeprazole and pantoprazole	**(10)**
Q4	What is sex hormone and give the MOA and uses of testosterone and nandrolone	**(10)**
Q5	What is anti diabetic agent, Give a note on insulin & write the MOA And SAR of tolbutamide.	**(10)**
Q6	Explain Vaso Dilators	**(10)**

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Total Number of Pages: 01 **B.PHARM**
BP502T

5th Semester Regular / Back Examination: 2021-22
INDUSTRIAL PHARMACY I
Branch: B. Pharma
Time: 3 Hours
Max Marks: 75
Q Code: OF208

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any two from Part-C.
The figures in the right hand margin indicate marks.

Part-I

Q1	**Objective Answer Type Questions (Answer All)**	**(02×10)**
a)	Write on Partition Coefficient.	**(2)**
b)	Write about polymorphism.	**(2)**
c)	State about different types of tablet.	**(2)**
d)	State about various steps of wet granulation for tablet.	**(2)**
e)	How large volume parenteral differs from small volume parenteral?	**(2)**
f)	How aerosol can be manufactured?	**(2)**
g)	State the role of humectant in tooth paste.	**(2)**
h)	Write down about different chemical properties which affects Preformulation studies of drug.	**(2)**
i)	How sugar coating differs from film coating.	**(2)**
j)	Determine the various steps for filling of hard gelatin capsule.	**(2)**

Part- II

Q2	**Focused-Short Answer Type Questions- (Answer Any Seven)**	**(05×07)**
a)	Design the different types of granulation methods	**(5)**
b)	Design the formulation procedure of soft gelatin capsule.	**(5)**
c)	Differentiate cold cream and vanishing cream.	**(5)**
d)	Explain about different types of excipient used in tablet with specific case.	**(5)**
e)	Justify different components of Aerosol package.	**(5)**
f)	Explain about different types for sugar coating of tablet.	**(5)**
g)	Explain about different methods used for emulsion formulation.	**(5)**
h)	Explain about formulation consideration related to eye lotion.	**(5)**
i)	Develop manufacturing methods used to lipstick.	**(5)**

Part-III

Long Answer Type Questions (Answer Any Two) **(02×10)**

Q3	Discuss about evaluation test for Aerosol formulations.	**(10)**
Q4	Discuss about quality control test of parenteral formulation.	**(10)**
Q5	Discuss about different properties related to Preformulation study.	**(10)**
Q6	Discuss about different evaluation parameters of tablet.	**(10)**

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Total Number of Pages : 01 **B. Pharm**
BP503T

5th Semester Regular / Back Examination : 2021-22
PHARMACOLOGY- II
Branch ; B. Pharma
Max Marks : 75
Time : 3 Hours
Q Code : OF297

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.
The figures in the right hand margin indicate marks.

Part- I

Q1	**Objective Answer Type Questions (Answer All)**	**(02×10)**
a)	Define Competitive antagonism with appropriate example?	**(2)**
b)	Define Haematinics with suitable example?	**(2)**
c)	What is IND application in drug discovery and development?	**(2)**
d)	Write about therapeutic indications for Simvastatin?	**(2)**
e)	Define First pass metabolism with suitable examples?	**(2)**
f)	Define Plasma volume expanders with suitable examples?	**(2)**
g)	Define Bioassay and enlist its limitations?	**(2)**
h)	Write functions of Glucagon?	**(2)**
i)	Write note on Idiosyncrasy?	**(2)**
j)	Write physiological role of Substance P?	**(2)**

Part- II

Q2	**Focused-Short Answer Type Questions- (Answer Any Seven)**	**(05×07)**
a)	Write pharmacology of Coagulants.	**(6)**
b)	Classify peripherally acting muscle relaxants. Write down the mechanism of action of succinylcholine.	**(6)**
c)	Classify Anti-epileptics drugs. Write short note on Carbamazepine?	**(6)**
d)	Enlist the steps during the treatment of barbiturates poisoning?	**(6)**
e)	Write down the classification, mechanism of action and uses of ganglionic blockers?	**(6)**
f)	Enlist different types of opioid receptors. Write note on opioid antagonists?	**(6)**
g)	Write down the pharmacology of local anesthetics with reference to local and systemic effects?	**(6)**
h)	Classify anti-cholinesterase agents. Write note on pharmacotherapy of Myasthenia gravis?	**(6)**
i)	What is Poison? Write short note on universal antidote for poisoning?	**(6)**

Part-III

Long Answer Type Questions (Answer Any Two) **(02×10)**

Q3	Explain in detail hemodynamic and electrophysiology of human heart?	**(10)**
Q4	Define Autacoids. Classify them and discuss the physiological role of histamine?	**(10)**
Q5	Classify antidepressant agents. Explain the site of action for antidepressant drugs?	**(10)**
Q6	Write a detailed note on Oral Contraceptives?	**(10)**

Registration No: -

Total Number of Pages: 01

B.PHARM
BP504T

5th Semester Regular / Back Examination: 2021-22
PHARMACOGNOSY AND PHYTOCHEMISTRY-II
Branch: B.Pharma
Time: 3 Hours
Max Marks: 75
Q Code:OF339

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any two from Part-C.
The figures in the right hand margin indicate marks.

Part- A

Q1	**Objective Answer Type Questions (Answer All)**	**(02×10)**
a)	Define Alkaloid and give example of two alkaloidal drugs.	**(2)**
b)	Define Primary and Secondary metabolites with suitable example.	**(2)**
c)	Write a short note on Grafting method.	**(2)**
d)	Chemically classify the Alkaloid with suitable example.	**(2)**
e)	Write the biological source and chemical constituents of Opium.	**(2)**
f)	Write down the biological source and chemical constituents of Fennel.	**(2)**
g)	Write down the biological source and chemical constituents of Ginger.	**(2)**
h)	Write down the biological sources of Clove & Colophony.	**(2)**
i)	Write down the identification test of Artemicin.	**(2)**
j)	Write down the bio-source and chemistry of Taxus.	**(2)**

Part- B

Q2	**Focused-Short Answer Type Questions- (Answer Any Seven)**	**(05×07)**
a)	Write a short note on Acetate-malonate pathway.	**(5)**
b)	Briefly discuss the methods of Tracer Technique.	**(5)**
c)	Describe Manske's Process for isolation of Alkaloids.	**(5)**
d)	Write down the detailed Pharmacognostic Characters of Rauwolfia.	**(5)**
e)	Write short note on Cardiac Glycoside with suitable example.	**(5)**
f)	Discuss the isolation and analysis of Podophylotoxin.	**(5)**
g)	Write notes on choice of solvents used in extraction of Phytoconstituents.	**(5)**
h)	Write down Isolation, Identification and analysis of Caffeine.	**(5)**
i)	Write detailed Pharmacognostic characters of Senna.	**(5)**

Part-C

	Long Answer Type Questions (Answer Any Two)	**(2×10)**
Q3	Give a detail account on Shikimic Acid Pathway.	**(10)**
Q4	Give the significance and application of Tracer Technique.	**(10)**
Q5	Explain in details about various methods of extraction of Phytoconstituents.	**(10)**
Q6	Write a detailed note on Industrial production and estimation of Digoxin.	**(10)**

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Total Number of Pages: 01 **B.PHARM**
BP505T

5th Semester Regular / Back Examination: 2021-22
PHARMACEUTICAL JURISPRUDENCE
Branch: B.Pharma
Time: 3 Hours
Max Marks: 75
Q Code : OF404

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any two from Part-C.
The figures in the right hand margin indicate marks.

Part- A

Q1	**Objective Answer Type Questions (Answer All)**	**(02×10)**
a)	Write a short note on Drug Control Laboratory.	**(2)**
b)	Write offences and penalties about import of drugs.	**(2)**
c)	Write about misbranded and adulterated drugs	**(2)**
d)	Write a short note on role of Chief Medical Officer (CMO).	**(2)**
e)	State the objective of MTP Act.	**(2)**
f)	Write a brief review on Pharmaceutical Legislation.	**(2)**
g)	State clandestine arrangement.	**(2)**
h)	Write the significance of Drugs Enquiry Committee (DEC).	**(2)**
i)	Derive the labelling requirements and write specimen label for schedule G.	**(2)**
j)	Determine spurious drugs as under Drugs and Cosmetics Act.	**(2)**

Part- B

Q2	**Focused-Short Answer Type Questions- (Answer Any Seven)**	**(05×07)**
a)	Explain in brief about manufacturing of Ayurveda preparations under M&TP Act.	**(5)**
b)	Illustrate the constitution and functions of Institutional Animal Ethical Committee (IAEC).	**(5)**
c)	Explain the code of ethics for pharmacist in relation to his trade.	**(5)**
d)	Explain Drugs Price Control Order (DPCO).	**(5)**
e)	Explain the objectives and prevention of cruelty to animals. What are the parts of CPCSEA guidelines?	**(5)**
f)	Explain qualifications and duties of Drug Inspector.	**(5)**
g)	Explain opium-poppy cultivation as per NDPS Act.	**(5)**
h)	Formulate in detail about loan licenses.	**(5)**
i)	Illustrate a short note on Central Drug Laboratory (CDL).	**(5)**

Part-C

Long Answer Type Questions (Answer Any Two)

Q3	Explain the conditions to grant license for manufacture of drugs specified in schedule C, C1 and X.	**(10)**
Q4	Describe the constitution and functions of PCI.	**(10)**
Q5	Discuss the qualifications, degrees and powers of Drug Inspector.	**(10)**
Q6	Discuss the constitution and functions of Drug Technical Advisory Board (DTAB).	**(10)**