

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 15-Mar-2021

Time: Three Hours

Max. Marks: 75 Marks

MEDICINAL CHEMISTRY - II

Q.P. CODE: 5018

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

All the Questions are compulsory

LONG ESSAYS

2 x 10 = 20 Marks

1. Define and Classify H_1 receptor antagonists with suitable examples. Outline the synthesis of Promethazine and Triprolidine HCl.

OR

Define and classify diuretics with examples. Explain the mechanism of action of carbonic anhydrase inhibitors and explain the synthesis of Acetazolamide.

2. Define and Classify local anaesthetic agents with suitable examples. Add a note on SAR of lidocaine derivatives.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Write a note on antimetabolites. Explain the synthesis of mercaptopurine.

OR

Discuss in brief about vasodilators and outline the synthesis of Nitroglycerine.

4. Define antiarrhythmic drugs? Mention the structure and uses of quinidine sulphate, phenytoin sodium, tocainamide, HCl and mexiletin HCl.

OR

Define antihyperlipidemic agents? Write the structure and uses of Clofibrate, lovastatin, Cholesteramine and cholestipol.

5. Describe the drugs used in the treatment of CHF.
6. Describe the structure and uses of testosterone, progesterone, oestriol and oestrone, diethyl stilbesterol.
7. Write the structure and uses of L-thyroxin, L-thyronin, propylthiouracil, and methimazole.
8. Explain the metabolism of steroids.
9. Define and classify antidiabetic drugs with suitable examples.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Write the structure of Mechlorethamine and cyclophosphamide.
11. Define gastric proton pump inhibitors and write the structure of rabeprazole.
12. Illustrate the importance of Histamine receptors.
13. Write the structures and uses of timolol and quinapril HCl.
14. Write the mechanism of action of thiazide diuretics.
15. Write the structures of diltiazem HCl and nifedipine HCl.
16. Explain the mechanism of action of anticoagulants.
17. Explain the synthesis of Disopyramide phosphate.
18. Write the structure and uses of dexamethasone.
19. Outline the synthesis of Benzocaine.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 17-Mar-2021

Time: Three Hours

Max. Marks: 75 Marks

INDUSTRIAL PHARMACY - I

Q.P. CODE: 5019

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

All the Questions are compulsory

LONG ESSAYS

2 x 10 = 20 Marks

1. Define and classify oral liquid dosage forms. Discuss the general formulation and evaluation of Suspensions.

OR

Define parenterals. Explain in detail quality control tests for parenterals.

2. Explain in detail the production and filling of hard gelatin capsule.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Describe the formulation of tooth pastes.

OR

Write quality control tests for aerosols.

4. Describe the formulation of eye drops.

OR

Write the formulation of tablets.

5. Give the quality control tests for soft gelatin capsules.
6. Importance of preformulation studies in the development of liquid dosage forms.
7. Explain different steps involved in sugar coating of tablets.
8. Give the formulation of cold cream.
9. Write the influence of particle size in designing of tablet dosage forms.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Write any four advantages of soft gelatin capsules.
11. Clarification of eye drops.
12. List the vehicles used in parenterals.
13. Applications of partition coefficient.
14. Disadvantages of Hair Dyes.
15. Define Sunscreens and write its uses.
16. Advantages of parenteral.
17. Storage conditions of capsules.
18. BCS classification of drugs.
19. Advantages of film coating of tablets.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 19-Mar-2021

Time: Three Hours

Max. Marks: 75 Marks

PHARMACOLOGY - II

Q.P. CODE: 5020

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

All the Questions are compulsory

LONG ESSAYS

2 x 10 = 20 Marks

1. Classify antihypertensive drugs with examples. Describe the pharmacology of ACE Inhibitors.
OR
Classify Non steroidal anti-inflammatory drugs with examples. Describe the pharmacology of Aspirin.
2. Write the applications of Bioassay. Explain the bioassay of histamine

SHORT ESSAYS

7 x 5 = 35 Marks

3. Describe the Pharmacology of Digoxin.
OR
Classify anti anginal drugs with examples. Write the pharmacology of Nitrates.
4. Describe the Pharmacological actions of heparin.
OR
Classify diuretics with examples.
5. Describe the pharmacology of Sulfasalazine.
6. Describe the pharmacology of propyl thiouracil.
7. Describe the Pharmacological actions of Insulin.
8. Describe the pharmacology of hydrocortisone
9. Describe the mechanism of action and adverse effects of sod.warfarin.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Explain the mechanism of action of statins.
11. Classify Anti rheumatoid drugs with examples.
12. Therapeutic uses of fibrinolytics.
13. Therapeutic uses of 5HT antagonists.
14. Classify parenteral anticoagulants with examples.
15. Adverse effects of Sulfonyl ureas.
16. Name three Hormones regulating plasma calcium level.
17. Name any four H₂ receptor antagonists.
18. Mention the different types of bioassays.
19. Mention any four names of anabolic steroids.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 23-Mar-2021

Time: Three Hours

Max. Marks: 75 Marks

PHARMACOGNOSY AND PHYTOCHEMISTRY - II

Q.P. CODE: 5021

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

All the Questions are compulsory

LONG ESSAYS

2 x 10 = 20 Marks

1. Explain different methods for elucidation of biosynthetic pathways.
OR
Explain SCF and Solid phase extraction of herbal drugs.
2. Explain industrial method of production and estimation of Sennoside and Caffeine.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Explain bio-sources, chemical constituents of Liquorice and Vinca.
OR
Describe Autoradiography and competitive feeding.
4. Describe microscopic method of fennel with neat labeled diagram.
OR
Give bio-sources and chemical constituents of Gentian and Ruta.
5. Write methods of estimation of Artemisinin and Quinine.
6. Write identification test and estimation of Digoxin.
7. Write a note on UV spectroscopy.
8. Write isolation and analysis of Glycyrrhizin.
9. Explain the importance of HPTLC and its applications.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Write Identification test for Aloes.
11. Give chemical structures of Reserpine and Caffiene.
12. Describe identification tests for Myrrh.
13. Adulterants of Senna and Digitalis.
14. Mention various spectroscopy.
15. Write source and structure of Citral.
16. Write application of TLC.
17. Write the application of Electrophoresis.
18. Write biological sources and uses of Vincristine and Taxol.
19. Write bio-source and Chemical constituents of Fennel.

Rajiv Gandhi University of Health Sciences, Karnataka

Fifth Semester B. Pharm Degree Examination – 25-Mar-2021

Time: Three Hours

Max. Marks: 75 Marks

PHARMACEUTICAL JURISPRUDENCE

Q.P. CODE: 5022

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

All the Questions are compulsory

LONG ESSAYS

2 x 10 = 20 Marks

1. Explain the conditions to grant license for manufacture of drugs specified in schedule C, C1 and X.

OR

Explain brief about Schedule 'Y'.

2. Write the constitution and functions Pharmacy Council of India.

SHORT ESSAYS

7 x 5 = 35 Marks

3. What are the classes of drugs prohibited to import into India.

OR

Write a note on Retail sale.

4. Discuss in detail about manufacture in bonded laboratory.

OR

Write the Short Note on Schedule 'N'.

5. Explain Opium poppy cultivation as per NDPS Act.
6. Define magic remedy. Write the classes of advertisements prohibited under D and MR Act.
7. Give the constitution and functions of Institute Animal Ethics (IAE) Committee.
8. Write short note on National List of Essential Medicines (NLEM).
9. Write contributions of Bhole committee to pharmacy profession.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Mention General labeling requirements and specimen labels for Schedule H drugs.
11. Give two recommendations made by Bhatia Committee.
12. Write note on CDSCO.
13. Write about first register.
14. Give Offences and penalties about import of drugs.
15. Define Cannabis as per NDPS Act 1985.
16. State Clandestine Arrangement.
17. Short note on Termination of Pregnancies as per MTP Act-1971.
18. Write note on 'Central Information Commission'.
19. Mention the Types of patents.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 02-Jan-2020

Time: Three Hours

Max. Marks: 75 Marks

MEDICINAL CHEMISTRY - II

Q.P. CODE: 5018

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Classify antineoplastic agents with example. Outline the synthesis of Mercaptopurine and Methotrexate.
2. Classify antihypertensive agents with examples? Write the MOA of Calcium channels blockers and give the synthesis of Isosorbide dinitrate.
3. Classify local anaesthetic agents and discuss SAR of Benzoic acid and Amide class of local anaesthetic agents with suitable examples.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Explain in detail about histamine receptors and their biological importance.
5. What are potassium sparing diuretics? Outline the synthesis and medicinal uses of Chlorthalidone.
6. Write a note on cardiac glycosides used in the treatment of Congestive Heart Failure.
7. What are lipid lowering agents? Give the structure and uses of Lovastatin, Clofibrate and Cholesteramine.
8. Classify antiarrhythmic agents with examples? Give the synthesis of Disopyramide.
9. Discuss about the medicinal importance of Corticosteroids and give the structures and uses of any two Corticosteroids.
10. Describe the chemistry of oral contraceptives.
11. Write a note on antithyroid drugs and give the structure and uses of any two.
12. What are hypoglycemic agents? Discuss about Glucosidase inhibitors as antidiabetic agents.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Write the structure and uses of any two aminoalkyl ether derivatives as antihistaminic agents.
14. Write the structure and uses of any two H₂ antagonists.
15. Explain mechanism of action of gastric proton pump inhibitors.
16. Write briefly about nitro vasodilators.
17. Discuss the mechanism of action of Acetazolamide.
18. Outline the synthesis of furosemide.
19. Write the structure and uses of any two anticoagulants.
20. Outline the synthesis of Warfarin.
21. Write the structure and uses of synthetic estrogens.
22. Write the structure and uses of Meglitinide and chlorpropamide.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 04-Jan-2020

Time: Three Hours

Max. Marks: 75 Marks

INDUSTRIAL PHARMACY - I

Q.P. CODE: 5019

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Describe the different granulation techniques used to manufacture tablets.
2. Explain the nature of the hard gelatin capsule shell and filling of hard gelatin capsules.
3. Describe in detail the formulation of parenterals.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Write the applications of Preformulation consideration in the development of solid dosage form.
5. Describe the ingredients required for film coating process.
6. Draw a neat labelled diagram of Rotary die process.
7. Write about BCS classification system with its significance.
8. Explain the formulation of eye ointments.
9. Explain significance of solubility in formulating liquid orals.
10. Explain the formulation and preparation of Vanishing cream.
11. Define aerosols write their advantages and disadvantages.
12. Write a note on legal and official requirements for containers.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Write the significance of partition co-efficient.
14. Write the effect of surface area and particle size on solubility.
15. Write on disintegrants used in tablets preparation with examples.
16. Write different sizes of hard gelatin capsules.
17. Write on finishing of hard gelatin capsules.
18. Classify anti oxidants used in parenterals.
19. Name the principles used in long acting parenterals.
20. Write a typical formula of Shampoo.
21. Name the different materials used to construct pharmaceutical containers.
22. Write a typical label for an eye drop.

Write the applications of Preformulation consideration in the development of solid dosage form.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 06-Jan-2020

Time: Three Hours

Max. Marks: 75 Marks

PHARMACOLOGY - II

Q.P. CODE: 5020

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. What are cardiac glycosides? Discuss pharmacology of digitalis.
2. Describe the different types of bioassay and explain the bioassay of Oxytocin.
3. Write the mechanism and pharmacological actions of prostaglandins.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Describe the pharmacology of Calcium channel blockers.
5. Describe the mechanism of action and adverse effects of loop diuretics.
6. Describe the pharmacological actions of methotrexate.
7. Mode of action and adverse effects of Insulin.
8. Write the mechanism of action and adverse effects of Prednisolone.
9. Mode of action and adverse effects of oral contraceptives.
10. Describe the pharmacology of Warfarin.
11. Explain the pharmacology of histamine.
12. Write the pharmacology of propylthiouracil.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Write the mechanism of action of Clofibrate.
14. Mode of action of Heparin.
15. Name leukotriene receptors.
16. Mode of action of sulfonyl ureas.
17. Write the therapeutic use of fibrinolytics.
18. Mode of action of anti-diuretic hormone.
19. What are advantages and disadvantages of bioassays?
20. Mention different types of insulin preparations.
21. What are anabolic steroids?
22. Classify anti- rheumatic drugs with examples.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 21-Jan-2020

Time: Three Hours

Max. Marks: 75 Marks

PHARMACOGNOSY AND PHYTOCHEMISTRY - II

Q.P. CODE: 5021

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Explain industrial method of production and estimation of Vincristine and Atropine.
2. Write Pharmacognosy of Dioscorea.
3. Explain Microwave assisted extraction and solid phase extraction method.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Discuss the industrial production and Identification of Sennosides.
5. Write a note on Acetate pathway and its significance.
6. Write a note on Carotenoids.
7. Give the applications of HPTLC and GC.
8. Give chemical test for Benzoin and Colophony.
9. Give botanical source and chemical constituents of Aloes and Tea.
10. Write the method of isolation and estimation of Curcumin.
11. Write the method of production and identification for digoxin.
12. Give the biological source and Chemical constituents of Cinnamon and Gentian.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Give the source and chemical constituents of Fennel.
14. Give the chemical structure of Atropine and caffeine.
15. Write the applications of TLC.
16. Explain Keller Killani Test.
17. Give biological source of Mentha and Rauwolfia.
18. Define Chromatography and Electrophoresis.
19. Application of supercritical fluid extraction.
20. Write a note on Liquid scintillation counter.
21. Describe Muroxide test.
22. Adulterants of clove.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination - 10-Jan-2020

Time: Three Hours

Max. Marks: 75 Marks

PHARMACEUTICAL JURISPRUDENCE

Q.P. CODE: 5022

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Discuss briefly about clinical trials as per Schedule 'Y'.
2. Write the Constitution and Functions of State and Joint state pharmacy councils.
3. What are the precedents and subsequent conditions for grant of license to manufacture of drugs specified in schedule C, C1 and X.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Discuss in details about Repacking Licenses.
5. Write the qualification and duties of Government Analyst.
6. Define 'Manufactured Drugs' and 'Controlled Substances' as per NDPS Act.
7. Write note on Schedule 'N'.
8. Explain about Warehousing of alcoholic preparation as per Medicinal and Toilet preparations 1955 act.
9. Describe the classes of advertisements exempted conditionally under the Drugs and Magic Remedies 1955 Act.
10. Give the constitution and functions of Institute Animal Ethics (IAE) Committee.
11. Write a note on Retail price and ceiling price of scheduled formulations.
12. Discuss the code of ethics for pharmacists in relation to his trade.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Give the labeling requirements and write the specimen label for Schedule G.
14. Give two recommendations made by Bhatia Committee.
15. What is Drugs Consultative Committee (DCC)?
16. Write note on loan license.
17. Enlist Code of Pharmaceutical Ethics in relation to medical profession.
18. Give four examples for psychotropic substances.
19. Define the term Patent.
20. Describe places where pregnancy may be terminated.
21. Define Right to Information.
22. Define Copyright.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 01-Dec-2020

Time: Three Hours

Max. Marks: 75 Marks

MEDICINAL CHEMISTRY - II

Q.P. CODE: 5018

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. What are antineoplastic agents? Classify them with example? Discuss the mechanism of action of alkylating agents. Outline the synthesis of Mechlorethamine.
2. Define and Classify antihypertensive agents? Explain the MOA of Angiotensin Receptor Blockers. Write the synthesis of Methyl Dopa.
3. Define and classify local anaesthetic agents with examples. Explain the SAR of local anaesthetic agents.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Define and Classify antihistaminic agents with examples? Give the synthesis and uses of Promethazine.
5. What are carbonic anhydrase inhibitors? Outline the synthesis and medicinal uses of Acetazolamide.
6. Define and Classify antiarrhythmic agents with examples? Give their Medicinal uses.
7. What are antihyperlipidemic agents? Explain their mechanism of action. Write the structure and uses of Clofibrate and Lovastatin.
8. What are anticoagulants? Give the mechanism of action and synthesis of Warfarin
9. Write a note on metabolism of Steroids.
10. Discuss about the drugs used for erectile dysfunction.
11. What are estrogens? Discuss about synthetic estrogens.
12. Define the term hypoglycemic agents. Give the structure of any two sulfonylureas and outline the synthesis of Tolbutamide.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Write the structure and uses of any two H₂ antagonists
14. Give the structure and uses of Azathioprine and Cisplatin
15. Write the structure and uses of tripelemine and chlorpheniramine
16. What are potassium sparing diuretics? Give the structure of triamterene.
17. Write briefly about nitro vasodilators.
18. Write the structure and use of minoxidil and guanethidine.
19. Write a note on drugs used in Congestive Heart Failure.
20. Write the structure and use of Menadione and Cholesteramine
21. Give the structure and uses of thyroid hormones.
22. Write the structure and uses of Pioglitazone and Metformin.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 04-Dec-2020

Time: Three Hours

Max. Marks: 75 Marks

INDUSTRIAL PHARMACY - I

Q.P. CODE: 5019

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Explain in detail manufacturing defects of tablets. With reasons and remedies.
2. Write in detail the facilities required in the manufacturing of parenterals.
3. Explain the different types of aerosol systems.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Write on BCS classification system with examples.
5. Write in detail wet granulation technique.
6. Write the formulation and evaluation of emulsions.
7. Write on base adsorption and Minim/gram factor.
8. Explain any two techniques of microencapsulation.
9. Write on nature of soft gelatin capsule content.
10. Explain the extraction of gelatin.
11. Write a note on vehicles used in parenterals preparation.
12. Write the formulation and preparation of cold cream.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Differentiate between amorphous and crystalline powder.
14. Write the importance of angle of repose in tableting.
15. Define capping and lamination.
16. Write the applications of pellets.
17. Write the different sizes of hard gelatin capsule.
18. List the evaluation methods for ophthalmic.
19. Write on HEPA filters.
20. Write the importance of isotonicity in ophthalmic.
21. Write the formulation of tooth paste.
22. Write the materials used for packing of pharmaceutical products.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 07-Dec-2020

Time: Three Hours

Max. Marks: 75 Marks

PHARMACOLOGY - II

Q.P. CODE: 5020

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Classify antihypertensive drugs with examples. Describe the pharmacology of Clonidine.
2. Classify Antihistamines with examples. Describe pharmacological actions of Histamine.
3. Write the applications of Bioassay. Explain the Bioassay of Digitalis.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Describe the Pharmacology of Statins.
5. Explain the mechanism of action and adverse effects of Aspirin.
6. Describe the Pharmacology of Furosemide.
7. Classify oral hypoglycaemic agents with examples.
8. Describe the Pharmacology of heparin.
9. Explain the Pharmacology of methotrexate.
10. Describe the pharmacological actions of Insulin.
11. Describe the pharmacology of hydrocortisone.
12. Classify Antithyroid drugs with examples. Describe the pharmacology of Propyl thiouracil.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Write the mechanism of action of Digitalis.
14. Mechanism of action of Vasopressin.
15. Mechanism of action of Heparin. *UM*
16. Therapeutic uses of fibrinolytic agents.
17. Classify antirheumatic drugs with examples.
18. Mention the drugs used in the treatment of Gout.
19. Write the mechanism of action of Pioglitazone.
20. Mechanism of action of Glucagon.
21. Enlist four Uterine stimulants.
22. Adverse effects of oral contraceptives.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 09-Dec-2020

Time: Three Hours

Max. Marks: 75 Marks

PHARMACOGNOSY AND PHYTOCHEMISTRY - II

Q.P. CODE: 5021

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Write Pharmacognosy of Rauwolfia.
2. Discuss the Super critical fluid extraction methods of extractions.
3. Discuss industrial method of extraction and estimation of Forskolin and Atropine.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Discuss the industrial production of Caffeine and give its uses.
5. Write a note on Acetate pathway and its significance.
6. Describe the Pharmacognosy of Guggul.
7. Describe Solid Phase method of extraction.
8. Write morphology and Microscopy of Senna.
9. Give botanical source, chemical constituents, chemical tests and uses of Aloes.
10. Explain the method of isolation and estimation for Quinine.
11. Explain industrial of production and uses for Diosgenin.
12. Give the biological source, Chemical constituents, uses and adulterants of Clove.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Write bio-source and chemical constituents of Taxus.
14. Give chemical constituents and uses of Ruta.
15. Give the applications of Electrophoresis.
16. Identification tests for Benzoin.
17. Write a note on Carotenoid.
18. Significance of Shikmic acid pathway.
19. Give the applications of HPTLC.
20. Write the significances of radio isotopes.
21. Write the chemical tests for Myrrh.
22. Give the Vitalimorin test and Thaloquin test.

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination - 11-Dec-2020

Time: Three Hours

Max. Marks: 75 Marks

PHARMACEUTICAL JURISPRUDENCE

Q.P. CODE: 5022

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Describe the classes of Drugs and Cosmetics which are prohibited from import and export under license.
2. Explain in detail about Schedule M (GMP) and under D and C Act 1940.
3. Describe the constitution and functions of Pharmacy council of India.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Mention the role Pharmacist with respect to his Medical Profession.
5. Describe in brief the calculation of retail price and ceiling price of scheduled formulations.
6. Write about transfer and acquisition of Animals for experiments.
7. Write a note on Loan license under Drug and Cosmetic Act 1940.
8. Write a note on manufacturing of Homeopathic preparations.
9. Describe the constitution and functions of Narcotic and Psychotropic consultative committee.
10. Explain in brief about Wholesale and Retail sale under Drug and Cosmetic Act 1940.
11. Give the specimen label for Schedule "H" drug with suitable examples.
12. Describe the classes of exempted advertisements as per Drugs and Magic Remedy Act.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Write about manufacturing of New Drug.
14. What is Drugs consultative committee?
15. Mention the offences and penalties in contravention of Pharmacy Act 1948.
16. Write about Authorities and Officers under NDPS Act 1985.
17. What is Hathi Committee?
18. Write a note on health survey of pharmaceutical legislation.
19. Reproduce Pharmacist Oath.
20. Mention the circumstances under which pregnancy can be terminated.
21. What are the duties of Right to information?
22. Define Trademarks as per IPR Act.
