

**FACULTY OF PHARMACY**

**B. Pharmacy VI-Semester (CBCS) (Backlog) Examination, November 2020**

**Subject: Physical Pharmacy - II**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any Four questions.**

**(4x17<sup>1/2</sup> = 70 Marks)**

1. (a) Write about the distribution law and enlist applications of the distribution law.  
(a) Write about Solubility of solids in liquids, Ideal and non ideal solutions.
2. (a) Explain in detail about effect of ionic dissociation and molecular association on partition and extraction.  
(b) How to calculate the solubility of weak electrolytes as influenced by pH.
3. Explain Decomposition and destabilization of medicinal agents against hydrolysis and oxidation and give the preventive measures against such decomposition.
4. (a) Explain Specific and General acid base catalysis.  
(b) Write different methods for determination of order of a reaction.
5. (a) Write a note on adsorption at solid/gas interface using Freundlich and Langmuir adsorption isotherms.  
(b) Explain in detail about Surface active agents along with applications.
6. (a) Differentiate surface and interfacial tension. Explain in detail about Capillary rise method for the determination of surface tension.  
(b) Define HLB. Give different methods of estimation of HLB value.
7. (a) Differentiate the three types of colloids and explain the methods of preparation of Lipophobic colloids.  
(b) Write a note on sedimentation method for the determination of particle size using andreasen apparatus.
8. (a) Explain various kinetic properties of colloidal dispersions.  
(b) Write in detail about various derived properties of powders.
9. (a) Explain Newton's law of flow of fluids and describe about cup and bob viscometer along with diagram.  
(b) Explain polymers as thickening agents in detail.
10. (a) Write a note on measurement of Thixotropy and explain the importance of Thixotropy in formulation.  
(b) Explain different types of non Newtonian systems with Rheograms.

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**FACULTY OF PHARMACY**

**B. Pharmacy VI-Semester (CBCS) (Backlog) Examination,  
October 2020**

**Subject: Pharmacotherapeutics**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any four questions.**

**(4X17 ½ = 70Marks)**

1. (a) Write briefly the pathophysiology of Heart failure.  
(b) Write the algorithm for management of Hypertension with compelling Indications.
2. Elaborate on the pharmacological management for Type-II diabetes.
3. Write about the prescribing guidelines to be followed in pregnancy and breast feeding.
4. Write briefly about Drug therapy and therapeutic approach for management for HIV and fungal infections.
5. Describe the etiology for Urinary infections and Protozoal infection.
6. Describe the etiology for Gonorrhoea and Syphilis.
7. (a) Write a note on Pulmonary function tests.  
(b) Write a note on Myocardial Infraction.
8. Write briefly about Etiopathogenesis and pharmacotherapy for Rheumatoid Arthritis.
9. (a) Write briefly about Oral contraceptives.  
(b) Write a note on Psoriasis.
10. Write a short note on
  - (i) Gout.
  - (ii) Hormone replacement therapy.

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**FACULTY OF PHARMACY**

**B. Pharmacy VI - Semester (CBCS) (Backlog) Examination,**

**October 2020**

**Subject: Quality Assurance**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any four questions.**

**(4X17 ½ = 70Marks)**

1. (a) Write in detail Quality Assurance of Raco Material.  
(b) Explain the concept quality.
2. Mention in short GMP requirements for Building and Facilities in Pharmaceutical plant.
3. Write short note on IPQC of parenterals.
4. Define IPQC and explain IPQC tests for suspension.
5. Write about standard guidelines and selection requirements in ISO 9000.
6. (a) Define and classify Quality Audits.  
(b) Discuss in short parameters to be checked during Audits of Pharma industry.
7. Define Quality Control and explain responsibilities of Quality Control personal.
8. Explain the term
  - (i) Out of standard.
  - (ii) Out of Trend.
9. (a) Define and classify Impurity.  
(b) Explain different sources of Impurity in the production of tablet. Draw cause and effect diagram for the same.
10. Note on Characterization, Isolation and Analytical method development for impurities in drug substances.

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**FACULTY OF PHARMACY**  
**B. Pharmacy VI-Semester (CBCS) (Main) Examination, August 2019**

**Subject: Pharmacotherapeutics**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer all questions. All questions carry equal marks.**

1. (a) Briefly summarize step-wise management of Asthma in adults.  
(b) Write a short note on lipid-lowering therapy. (10+4)  
**OR**
2. (a) Explain about any one Heart disease or disorder and the management and treatment. (14)
3. Explain management of Type-1 & Type 2 diabetes and the drugs used to treat them.(14)  
**OR**
4. Explain the hypothyroidism and hyperthyroidism, and the drugs used to treat hypothyroidism. (14)
5. Discuss common clinical disorders affecting elderly people and modifications of drug therapy needed. (14)  
**OR**
6. Discuss about how the dosage changes can be affected for pediatric patients. (14)
7. (a) Explain the causative organisms and targeted therapies for community acquired pneumonia. (10)  
(b) Add a note on management of cold and flu. (4)  
**OR**
8. (a) Discuss pathogenesis of HIV infection. (7)  
(b) Write a note on HAART therapy. (7)
9. (a) Explain the general principles of cancer therapy. (7)  
(b) Discuss the chemotherapy for any one organ cancer. (7)  
**OR**
- 10.(a) What are the differences between Osteoarthritis and Rheumatoid arthritis. (7)  
(b) Explain clinical features and drug treatment of Gout. (7)

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**FACULTY OF PHARMACY**

**B. Pharmacy VI-Semester (CBCS) (Main) Examination, July 2019**

**Subject: Forensic Pharmacy (Pharmaceutical Jurisprudence)**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer all questions. All questions carry equal marks.**

1. Define Narcotic drugs as per the Narcotic and psychotropic substances act 1985. write about the official procedures for cultivation and production of opium and sale and distribution of opium products. (14)
- OR**
2. Write the constitution and functions of Pharmacy Council of India. (14)
3. (a) Write about the qualification and duties of Drug Inspector. (6)  
(b) Explain the constitution and role of DTAB. (8)
- OR**
4. (a) Discuss the requirements as per the D & C Act for the manufacture of schedule X drugs. (8)  
(b) Define cosmetic and explain the prohibition of cosmetics for import, manufacture and sale according to D & C 1940. (6)
5. Explain the labeling and packing requirements for drugs according to drugs and cosmetics Act 1940 along with the specimen labels of Schedule G and Schedule X drugs. (14)
- OR**
6. What is the objective of Medicinal and Toilet preparation (Excise Duties) Act 1955? Write the procedure of manufacture of drugs and toilet preparations containing alcohol in a bonded laboratory and a non-bonded laboratory. (14)
7. (a) What is a magic remedy? What kind of advertisements are exempted from the provisions of the drugs and magic remedies (objectionable advertisements) Act 1954. (9)  
(b) Discuss the constitution of Central Committee for Food Standards. (5)
- OR**
8. Define "Factory" according to Factories Act. Discuss the salient features of the Factories Act with reference to the welfare measures to be taken for workers in a factory. (14)
9. (a) What is a Patent? What are various Intellectual Property Rights? (7)  
(b) Define and discuss the procedure to obtain a patent. (7)
- OR**
10. What is NPPA and it's function? Discuss about the Drug Price Control Order and explain the formula for calculation of retail price and fixation of ceiling price for scheduled formulation as per DPCO 2013. (14)

## FACULTY OF PHARMACY

## B. Pharmacy VI-Sem. (CBCS) (Main) Examination, July 2019

## Subject: Pharmacognosy - II

Time: 3 Hours

Max. Marks: 70

**Note: Answer all questions. All questions carry equal marks.**

1. (a) Write a brief note on Alkaloids. (5)  
 (b) Give the specific chemical test and uses of  
 I. Cinchona II. Purine alkaloids III. Tropane Alkaloids. (9)
- OR**
2. (a) Write a pharmacognostic note on Opium. (8)  
 (b) Describe the diagnostic characters of Ephedra and Kurchi with labeled diagram. (6)
3. (a) Write a brief note on ashwagandha. (4)  
 (b) Write a detail pharmacognostic note on Senna. (10)
- OR**
4. Describe the following chemical tests with their importance  
 (a) Keller kiliani test (b) Borntragers test (c) Cuprolain test (9)  
 (d) Write a note on chemistry of cardiac glycosides. (5)
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5. (a) Write about the isolation and estimation of tannic acid from Myrobalan. (6)  
 (b) Explain the microscopy and Adulterants of Clove. (8)
- OR**
6. (a) Write the method of isolation of sennosides from senna leaves. (5)  
 (b) Write the biological source, chemical constituents and uses of  
 i. Artemisia ii. Turmeric iii. Podophyllum (9)
7. (a) Write about the nutritional requirements of the ideal plant tissue culture medium. (10)  
 (b) Write brief note about the sterilization techniques of Explant. (4)
- OR**
8. Write about i. callus culture ii. Suspension culture iii. Embryo culture. (5+4+5)
9. (a) Write about the regulations of herbal medicine practice in India. (5)  
 (b) Write the method of preparation of i. Bhasmas ii. Ghritams iii. Churnas. (3+3+3)
- OR**
10. (a) Define i. Aristas ii. Asavas iii. Churnas. (3)  
 (b) Write a detailed note on Quality control and standardization parameters of Raw materials used in Herbal preparations. (11)

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**FACULTY OF PHARMACY**

**B. Pharmacy VI-Semester (CBCS) (Main) Examination, July 2019**

**Subject: Pharmacology - II**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer all questions. All questions carry equal marks.**

1. Write the mechanism of action, adverse effects and therapeutic uses of the following  
(i) Pencillin (ii) Macrolide antibiotics (7+7)  
**OR**
2. (a) Classify antiviral drugs. Write the pharmacology of reverse transcriptase inhibitors.  
(b) Write a note on anti Metabolites? (8+6)
3. (a) Write the pharmacology of scrotonin.  
(b) Write the pharmacology of Prostaglandins. (6+8)  
**OR**
4. (a) Write about the following Heamatinics.  
(i) Iron (ii) Folic acid.  
(b) Write a note on thrombolytics. (8+6)
5. (a) Write a note on Oxytocics and Uterine stimulants.  
(b) Write a note on Adrenocorticosteroids. (7+7)  
**OR**
6. Explain the pharmacology of Insulin and Glucagon. (14)
7. Explain the bioassay of insulin and oxytocin. (14)  
**OR**
8. Write the bioassays of diphtheria antitoxin and vasopressin. (14)
9. (a) Describe the treatment of Poisoning with heavy metals.  
(b) Write a note on barbiturate poisoning. (8+6)  
**OR**
- 10.(a) Write the symptoms and treatment of paracetamol and digitalis toxicity.  
(b) Explain the phases in clinical trials. (8+6)

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## FACULTY OF PHARMACY

### B. Pharmacy VI-Semester (CBCS) (Main) Examination, July 2019

#### Subject: Physical Pharmacy - II

Time: 3 Hours

Max. Marks: 70

**Note: Answer all questions. All questions carry equal marks.**

1. (a) Define and explain Phase rule. Explain the influence of Temperature and pressure on solubility of gases in liquids. 7  
 (b) Explain various factors influencing solubility of drugs. 7
- OR**
2. (a) Describe the effect of ionic dissociation and molecular association on partition coefficient. 10  
 (b) Explain the relationship between solubility and partition coefficient. 4
3. (a) Explain about decomposition of drugs and write about the preventive methods. 8  
 (b) Derive and explain first order Kinetic equation. 6
- OR**
4. (a) Discuss and explain the Accelerated stability testing of drugs. 10  
 (b) What is a pseudo order reaction? Explain it with example. 4
5. (a) Define and explain the importance of surface and interfacial tension. 7  
 (b) What is HLB? How is it useful in preparation of various formulations? 7
- OR**
6. (a) Define and explain the applications of adsorption in pharmaceuticals. 7  
 (b) Describe the capillary rise method for the determination of surface tension. 7
7. (a) Explain the various properties of colloidal systems. 7  
 (b) Write about any one method of particle size measurement and their importance in formulations. 7
- OR**
8. (a) Define and explain colloidal system and write about the types of colloids with examples for each class. 7  
 (b) Write about the importance of particle size and shape and explain about particle size distributions. 7
9. (a) Define & explain Newtonian & Non-Newtonian systems. 7  
 (b) Write about the polymers and their application as thickening agents in formulations. 7
- OR**
10. (a) What is thixotropy? Explain Thixotropy with the help Rheograms and its applications. 7  
 (b) Write about any two methods of determining viscosity. 7

**B. Pharmacy VI-Semester (CBCS) (Main) Examination, August 2019**

**Subject: Quality Assurance**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer all questions. All questions carry equal marks.**

1. Define Quality control and Quality assurance and write its functions. Write a short note on aseptic process control and air handling systems. 14
- OR**
2. Explain briefly quality assurance of raw materials, and calibration of equipment. 14
3. Explain in detail about IPQC tests for tablets. 14
- OR**
4. Explain about IPQC tests for parenterals.
5. Explain in detail about ISO certification procedure. 14
- OR**
6. Write briefly about internal and external audits, Second and third party audits. 14
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7. Write short notes on  
(a) Desirable qualities of analyst. 7  
(b) Safety guidelines in QC lab. 7
- OR**
8. Write a brief note on  
(a) Good documentation practices. 7  
(b) Out of specifications. 7
9. What are the sources of impurities and their effect on drug stability and therapeutic action? 14
- OR**
10. What are the guidelines as per ICH or WHO for impurity and related substances? 14

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