

**FACULTY OF PHARMACY**

**B. Pharmacy II - Semester (CBCS) (Backlog) Examination, November 2022**

**Subject: Pharmaceutical Organic Chemistry-I**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer any five questions.**

**Draw neat and labelled diagrams where ever necessary**

1. Explain (i) Effect of Intermolecular forces (ii) Solubility and polarity of molecules  
(iii) Mesomerism
2. Write about (i) Inductive effect (ii) Resonance (iii) electronic effects
3. (i) Explain Sachse-Mohr theory (ii) Electrophilic addition reactions
4. (i) Explain the configuration of cycloalkanes (ii) Free radical reactions
5. Write about (i) Mechanism of SN1 and SN2 reactions (ii) Stability of conjugated dienes
6. (i) Write about Williamson's synthesis and Zeisel's method in detail (ii) Sayetzeff's rule
7. Write the reaction, mechanism and applications of  
(i) Aldol condensation (ii) Reformatsky reaction
8. (i) Explain about Nucleophilic substitution reactions of carboxylic acids (ii) Explain  
about Aceto acetic ester synthesis?
9. (i) Write about basicity of Amines?  
(ii) Write about preparation methods of Diazonium salts?
10. (i) Explain E1 and E2 reactions in detail  
(ii) Write about method of preparation of Alkyl halides?

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**FACULTY OF PHARMACY**

**B. Pharmacy II Semester (CBCS) (Backlog) Examination, November 2022**

**Subject: Communicative English**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer any five questions. All questions carry equal marks.**

1. (a) Explain the role and importance of communication.  
(b) How to overcome the barriers of communication?
2. (a) Write about the body language for interviews and write about do's and don'ts in an interview.  
(b) What are polite expressions of agreeing and disagreeing?
3. (a) Explain the basic principles we need to remember while writing a paragraph.  
(b) Define notice and describe its importance with the help of a model notice.
4. (a) As the librarian of your organisation write a letter to claim compensation for books which arrived in damaged condition from a publisher.  
(b) Explain how to make an effective speech.
5. (a) Discuss the different types of reports in detail.  
(b) Draft a letter of application for the post of pharmacist in a reputed organization.
6. (a) How important are order and safety, according  
(b) What did Andrew Carnegie learn from his parents?
7. (a) When will misery come to an end?  
(b) Why does school failure occur; According to Benjamin Spock?
8. (a) Write a short note on (i) group communication (ii) verbal communication.  
(b) Interpersonal communication is an important area of communication. Explain.
9. (a) List some techniques to improve listening ability.  
(b) Explain the use of thesaurus in building your vocabulary.
- 10 (a) Give the synonyms for the following:  
(1) Resentful (2) Liberation (3) Vigorous (4) Instinct.  
(b) Give the antonyms for the following:  
(1) Enormous (2) conceivable (3) Human (4) Fickel.  
(c) One word substitutes  
(1) Asylum (2) Frontiers (3) Nostalgia (4) Invalid.  
(d) Rewrite the sentences as directed  
(1) R. K. Narayan has written many novels. (Change into passive voice)  
(2) The captain said to the crew, "clear the deck". (Change into indirect speech)  
(3) He congratulated me \_\_\_ my success. (Use appropriate preposition)  
(4) There \_\_\_ (is) a sudden silence when he entered the hall. (Use appropriate form of verb)  
(5) He did not speak \_\_\_ word in self-defence. (Insert article)  
(6) He has worked hard for the project, has he? (Correct the question tag).

**FACULTY OF PHARMACY**

**B. Pharmacy II Semester (CBCS) (Backlog) Examination, November 2022**

**Subject: Human Anatomy and Physiology – II**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer any five questions. All questions carry equal marks.**

1. Explain the different types of pulmonary volume and capacities and add a note on alveolar Ventilation.
2. (a) Describe the structure of nose with a neat labeled diagram.  
(b) Define the term Hypoxia and write about different types of Hypoxia.
3. What are cranial nerves? Explain different types of cranial nerves in detail.
4. (a) What is reflex arc? Explain the components of reflex arc.  
(b) Describe the anatomy of cerebrum.
5. (a) Discuss the digestion process in small intestine.  
(b) Write short notes on peristalsis.
6. (a) Write about the process of absorption in GI.  
(b) Mention different phases of digestion
7. (a) Discuss about the structure and functions of pituitary hormones.  
(b) Write short note on pineal body.
8. (a) Describe the mechanism of hormone actions.  
(b) Explain the biosynthesis of thyroid hormones.
9. Write in detail about the physiology of urine formation and add a note on micturition.
10. (a) Draw a neat labeled diagram of nephron.  
(b) Explain the process of spermatogenesis.

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**FACULTY OF PHARMACY**

**B. Pharmacy II Semester (CBCS) (Backlog) Examination, November 2022**

**Subject: Basic Computer Application-II**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer any five questions. All Questions carry equal marks.**

- 1 (a) Explain the structure of 'C' program.  
(b) Explain the input and output functions in 'C'.
- 2 (a) Describe the concept of type conversion.  
(b) Describe the various kinds of data types in 'C'.
- 3 (a) Explain about Logical operator and Conditional operator.  
(b) Explain about the Assignment operator and Arithmetic operator.
- 4 (a) Write difference between break and continue statement.  
(b) Write difference between while and do-while.
- 5 Write Advantages and disadvantages of DBMS.
- 6 Explain about database development life cycle (DDLC).
- 7 Explain the constraints in SQL.
- 8 Explain DML commands with structure and examples.
- 9 (a) Explain about the cloud computing.  
(b) Write about difference between big data and data mining.
- 10 Explain in detail about chemical database design & their tools.

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**FACULTY OF PHARMACY**

**B. Pharmacy II Semester (CBCS) (Backlog) Examination, March - 2022**

**Subject: Communicative English**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer any five questions. Draw neat and labelled diagrams where ever necessary**  
**(5 x 14 = 70 Marks)**

- 1(a) Write a note on verbal and non-verbal communication
- (b) How to make the communication effective by overcoming the barriers of communication?
- (c) Explain the role of wit and humor in communication
- 2(a) What is the importance of evaluating and organizing the collected information for presentation?
- (b) Write the do's and don'ts in a group discussion
- 3(a) Write a note on formal and informal English
- (b) Explain the situations for the use of polite expressions with the help of examples.
- 4(a) Discuss the advantages of listening in verbal communication as a method of learning.
- (b) As the head boy of a school draft a notice for all the students announcing the launch of the social welfare program for raising funds for street children and orphans.
- 5(a) How do you conduct a seminar/conference?
- (b) As a librarian of your organization, write a letter to the publisher requesting for the catalogue.
- 6(a) Explain the basic principles we need to remember while writing a paragraph.
- (b) Define notice and describe the importance with the help of a model notice.
- 7(a) Draft a cover letter for the post of marketing executive in a reputed pharmaceutical company.
- (b) Write in your own words that "the role of a teacher in a classroom".
- 8(a) "Machines", C.E.M Joad points out, "are aids to civilization and not proof of civilization". Elucidate.
- (b) How do children react in adolescence?
- 9(a) Who was Andrew Carnegie and why was he addressed as "Steel King"?
- (b) What was the teaching of Swami Vivekananda regarding "unattachment"?

- 10(a) Give the synonyms for the following:  
(1) Seam stress (2) Benevolent (3) Ingenious (4) Vigilant
- (b) Give the antonyms for the following:  
(1) Promote (2) civilized (3) Destruction (4) Conceivable
- (c) One –word substitutes  
(1) Hayrick (2) Drudge (3) Oases (4) Liberation
- (d) Rewrite the sentences as directed  
(1) He will buy the farm land. (Change into passive voice)  
(2) They said to him, “we will hand over our work tomorrow”. (Change into indirect speech).  
(3) I am sorry \_\_\_\_\_ my misconduct. (Insert appropriate preposition)  
(4) The trail \_\_\_\_\_ (go) on for two years. (Use appropriate form of verb)  
(5) It is \_\_\_\_\_ unfortunate incident. (Insert appropriate article)  
(6) I want to meet you tomorrow (A polite question)

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**FACULTY OF PHARMACY**  
**B. Pharmacy II Semester (CBCS) (Backlog) Examination, March 2022**

**Subject: Basic Computer Application - II**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer any five questions. All questions carry equal marks.**  
**(5 x 14 = 70 Marks)**

- 1 (a) Explain the concept of storage classes.  
(b) Explain the concept of pre-processors in 'C'.
- 2 (a) Write the process of writing and executing 'C' program.  
(b) Write about Identifiers and constants in 'C'.
- 3 What is an array? Explain different types of arrays with examples.
- 4 Explain all types of IF statements in C.
- 5 (a) Explain the characteristics of DBMS.  
(b) Explain about Relational model concept.
- 6 (a) Write about the traditional file based system.  
(b) Write about the hierarchical and network data model.
- 7 Explain DDL commands with structure and examples.
- 8 Compare SQL Server and MS access.
- 9 (a) What is the heterogeneous storage? Explain in detail.  
(b) Explain the concept of chemsketch.
- 10 Write about the chemdraw.

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**FACULTY OF PHARMACY**

**B. Pharmacy II Semester (CBCS) (Backlog) Examination, March 2022**

**Subject: Introduction to Dosage Forms**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer any five questions. All questions carry equal marks.**

**(5 x 14 = 70 Marks)**

- 1 (a) Classify various dosage forms with examples.  
(b) Write the principle and procedure involved in the preparation of simple syrup.
- 2 (a) What are elixirs? Explain any two methods of preparation of elixirs.  
(b) Distinguish between (i) Emulsions and suspensions (ii) Throat paints and gargles.
- 3 (a) Mention the types of capsules. Write the processing of capsules.  
(b) Write the general methods of preparation of tablets with advantages and disadvantages.
- 4 Classify powders. Write the principle and procedure in the preparation of effervescent granules. Add a note on insufflations.
- 5 Discuss in detail about ointment bases. Give the principle and procedure in the preparation of simple ointment and vanishing cream.
- 6 Write a note on suppositories. Explain the significance of displacement value.
- 7 Distinguish the following:
  - (a) Dry heat and moist heat sterilization
  - (b) Tyndallization and Pasteurization
  - (c) Water for injection and distilled water.
- 8 (a) Write the composition and preparation of Ringer lactate solution.  
(b) Add a note on eye drops.
- 9 What is incompatibility? Mention the types of incompatibilities. Discuss in detail about therapeutic incompatibility. Mention the methods to overcome them.
- 10 Explain physical and chemical incompatibilities with examples.

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**FACULTY OF PHARMACY**  
**B. Pharmacy II Semester (CBCS) (Backlog) Examination, March 2022**

**Subject: Pharmaceutical Organic Chemistry - I**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer any five questions. All questions carry equal marks.**  
**(5 x 14 = 70 Marks)**

- 1 Explain (i) Energy diagram of reactants and products during reaction.  
(ii) Solubility and polarity of molecules. (iii) Atomic and molecular orbitals.
- 2 Write about (i) Inductive effect (ii) Explain the configuration and confirmation of cycloalkanes (iii) Explain Kharasch effect.
- 3 (i) Explain Bayer-strain theory (ii) explain the configuration and confirmation of cycloalkanes  
(iii) Explain Kharasch effect.
- 4 Write about (i) Nucleophilic substitution reactions (ii) Stereochemistry of SN1 reaction.
- 5 (i) Write about Williamson's synthesis and Zeisel's method in detail (ii) Two methods of preparation of Alcohols.
- 6 (a) Write the reaction, mechanism and applications of Nucleophilic addition reactions of Carbonyl compounds.  
(b) Write two methods of preparation of Aldehydes and ketones.
- 7 (a) Explain how to differentiate primary, secondary and tertiary amines.  
(b) Explain about Malonic ester synthesis.
- 8 (a) Write about Acidity of Carboxylic acids with examples.  
(b) Write about preparation methods of Amides and Esters from Carboxylic acids.
- 9 (a) Explain the reactivity and synthesis of Ethyl acetoacetate.  
(b) Write about aryl diazonium salts.
- 10 Write any two methods of preparation (i) Alkyl halides (ii) Carboxylic acids.

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**FACULTY OF PHARMACY**  
**B. Pharmacy II Semester (CBCS) (Backlog) Examination, March 2022**

**Subject: Human Anatomy and Physiology - II**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer any five questions. All questions carry equal marks.**

**(5 x 14 = 70 Marks)**

- 1 Explain the different types of pulmonary volumes and capacities and add a note on alveolar Ventilation.
- 2 What are cranial nerves? And explain different types of cranial nerves in detail.
- 3 a) Draw a neat labeled diagram of nephron.  
b) Explain the process of spermatogenesis.
- 4 a) What is reflex arc? Explain the components of reflex arc.  
b) Describe the structure and functions of brain stem.
- 5 Define digestion and explain in the process of digestion.
- 6 a) Write about different phases of digestion.  
b) Explain the structure and functions of pancreas.
- 7 a) Discuss about the structure and functions of pituitary hormones.  
b) Write short note on pineal body.
- 8 Write in detail about the physiology of urine formation and add a note on micturition.
- 9 a) Describe how the blood transports oxygen and carbon dioxide.  
b) Write a short note on neuronal regulation of respiration.
- 10 Write in detail about female reproductive system with a neat labeled diagram.

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**FACULTY OF PHARMACY**

**B. Pharmacy II-Semester (CBCS)(Backlog) Examination, December 2021**

**Subject: Pharmaceutical Organic Chemistry – I**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any four questions.**

**(4 x 17½ = 70 Marks)**

- 1 Discuss about:
  - (a) Inductive effect
  - (b) Electronic effect
  - (c) Mesomerism
  - (d) Resonance
- 2
  - (a) Discuss about intermolecular forces and bond angles with suitable examples.
  - (b) Write about Hybridization with suitable examples.
- 3
  - (a) Discuss about General methods of preparation and characteristic reactions of Alkanes.
  - (b) Write about peroxide effect and stability of conjugated dienes and their reactions in detail.
- 4 Write about :
  - (a) Bayer strain theory
  - (b) Sache – Mohr theory
- 5
  - (a) Write about Nucleophilic substitution reactions.
  - (b) Write about Elimination reactions.
- 6
  - (a) Write a note on
    - (i) Williamson's method
    - (ii) Zeisel's method
  - (b) Discuss any three methods of preparation of alcohols.
- 7
  - (a) Write about characteristic reactions of carbonyl compounds.
  - (b) Write in detail about mechanism involved in Aldol condensation.
- 8 Write about:
  - (a) Hofmann elimination
  - (b) Hinsberg's method of separation of amines
- 9
  - (a) Write a note on relative acidity of carboxylic acids.
  - (b) Write any two methods of preparations of
    - (i) acid chlorides
    - (ii) Ester
- 10
  - (a) Write the reactivity and synthetic uses of ethyl acetoacetate.
  - (b) Write about reactivity and synthetic uses of malonic ester.

**FACULTY OF PHARMACY****B. Pharmacy II – Semester (CBCS) (Backlog) Examination, December 2021****Subject: Communicative English****Time: 2 Hours****Max. Marks: 70****Note: Answer any four questions****(4 x 17<sup>1/2</sup> = 70 Marks)**

- 1 a) Write a note on the importance of non-verbal communication  
b) Explain in detail the barriers of communication & How can these be removed
- 2 a) What are do's & donts in group discussion  
b) "Interpersonal communication is an important area of communication". Explain.
- 3 Write short notes on the following  
a) How to thank in different ways  
b) How to develop vocabulary
- 4 a) Write antonyms for the following words  
1) Promote 2) Civilised 3) Destruction 4) Genuine 5) Conceivable  
b) Write synonyms for the following words  
1) Ingenious 2) Anguish 3) Liberation 4) Incessantly 5) Vanish  
c) Write on the one word substitutes  
1) Invalid 2) Optimist 3) Asylum 4) Frontiers
- 5 a) You are organizing a seminar on "New trends in pharmaceutical formulations" write the letter to a professor - an eminent speaker from the reputed university requesting him to speak on the occasion.  
b) Write a short paragraph on "Health is Wealth".
- 6 a) Explain the procedure for writing the minutes of meeting  
b) Write about various types of reports explaining the use and importance of each.
- 7 a) Write a business letter for the placement of an order for the articles items etc., Required.  
b) Write a note on process of listening of tips for effective listening.
- 8 a) Rewrite as directed  
1) He has worked hard for the project, has he? (Correct the question tag)  
2) The earth – (revolve) round the sun (use the correct form of verb)  
3) John is the most industrious man in the company  
(Change in to comparative degree)  
4) He said that he wanted to attend the meeting (Change in to direct speech)  
5) The doctor – (Examine) the patient yesterday (use the right form of verb)  
6) Fire causes smoke. (Change the voice)  
7) My friend – (write) a letter when I went to visit her  
(use correct form of the verb)  
8) She said, "Is it your final decision" (Change in to indirect voice)

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- b) Write a letter of complaint to the inspector of police about the theft of your car.
- 9 a) How does Swami Vivekananda explain the secret of work  
b) What are Joad's views on Democracy & world civilization.
- 10 a) What made Carnegie's life always full & interesting  
b) Why does school failure occur, in the opinion of Benjamin Spock.

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**FACULTY OF PHARMACY**

**B. Pharmacy II Semester (CBCS) (Backlog) Examination, December 2021**

**Subject: Basic Computer Application - II**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any four questions.**

**(4 x 17½ = 70 Marks)**

- 1 (a) Explain the concept of storage classes.  
(b) Explain the concept of pre-processors in 'C'.
- 2 (a) Write the process of writing and executing 'C' program.  
(b) Write about Identifiers and constants in 'C'.
- 3 What is an array? Explain different types of arrays with examples.
- 4 Explain all types of IF statements in C.
- 5 (a) Explain the characteristics of DBMS.  
(b) Explain about Relational model concept.
- 6 (a) Write about the traditional file based system.  
(b) Write about the hierarchical and network data model.
- 7 Explain DDL commands with structure and examples.
- 8 Compare SQL Server and MS access.
- 9 (a) What is the heterogeneous storage? Explain in detail.  
(b) Explain the concept of chemsketch.
- 10 Write about the chemdraw.

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**FACULTY OF PHARMACY**

**B. Pharmacy (CBCS) II - Semester (Backlog) Examination, December 2021**

**Subject: Human Anatomy & Physiology – II**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any four questions.**

**(4 x 17½ = 70 Marks)**

- 1 (a) Define Pulmonary Ventilation and write a note on Physiology of Ventilation with suitable diagrams.  
(b) Describe the structure of lung with a neat labelled diagram.
- 2 (a) Explain the main mechanism by which respiration is controlled.  
(b) Describe oxygen and carbondioxide transport in blood.
- 3 (a) Write about structure and functions of neuron.  
(b) Explain in detail the process of neurotransmission.
- 4 Describe the structure and functions of brain and spinal cord.
- 5 (a) Explain the structure and functions of small intestine with a neat labelled diagram.  
(b) Write about different phases of digestion
- 6 Explain in detail the process of digestion of proteins, carbohydrates and fats in the GIT.
- 7 List the hormones secreted from anterior pituitary gland? Write in detail about any four hormones.
- 8 (a) Explain the anatomy and physiology of Adrenal gland.  
(b) Write a note on mineralocorticoids
- 9 (a) Explain the process of spermatogenesis.  
(b) Write short note on menstrual cycle.
- 10 Describe the structure of male reproductive system with a neat labelled diagram.

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**FACULTY OF PHARMACY**

**B. Pharmacy II – Semester (CBCS) (Backlog) Examination, December 2021**

**Subject: Introduction to Dosage Forms**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any Four Questions**

**(4 x 17<sup>1/2</sup> = 70 Marks)**

- 1 a) Define a dosage form. Write the classification of dosage forms  
b) Define aromatic waters. Explain the method of preparation of Aromatic waters
- 2 a) Write the principle and procedure involved in the preparation of simple syrup.  
b) Distinguish between Lotions and Liniments
- 3 a) Classify Tablets? Write any one method of preparation of tablets  
b) Classify powders? Write the principle and procedure involved in the preparation of effervescent granules
- 4 a) Write the general methods of preparation of capsules, advantages and disadvantages of soft and hard gelatin capsules.  
b) Write a note on Lozenges
- 5 a) Write about different types of ointment bases with their advantages and disadvantages  
b) Distinguish between pastes and jellies
- 6 a) Discuss about the different bases used in the preparation of suppositories  
b) Write the principle and procedure in the preparation of cold cream
- 7 a) Define sterilization? Classify the methods of sterilization. Discuss about dry heat sterilization with applications  
b) Write a note on sterility tests
- 8 a) Distinguish between
  - i) Vials and ampoules
  - ii) Water for injection and distilled waterb) Give the composition and preparation of ringer lactate solution
- 9 What is incompatibility? Mention the types of incompatibilities. Discuss in detail about chemical incompatibility by giving suitable examples. Mention the methods to overcome
- 10 Write a note on physical incompatibility and therapeutic incompatibility with examples and mention the methods to overcome

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**FACULTY OF PHARMACY**

**B. Pharmacy II-Semester (CBCS)(Backlog) Examination, September 2021**

**Subject: Pharmaceutical Organic Chemistry – I**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any four question.**

**(4 x 17<sup>1/2</sup> = 70 Marks)**

- 1 (a) Discuss about solubility and polarity of molecules.  
(b) Explain  
(i) Covalent bonds (ii) Energy diagrams of reactants and product during reactions.
- 2 Write about  
(a) Inductive effect (b) Mesomeric effect (c) Electronic effect (d) Resonance
- 3 (a) Write about mechanism involved in free radical reactions.  
(b) Write about Electrophilic addition reactions.
- 4 Write about:  
(a) Saytzeff's theory  
(b) Configuration and conformation of cycloalkanes
- 5 (a) Write about reaction and mechanism of SN<sup>2</sup> reactions.  
(b) Write about general methods of preparation of Alkyl halides.
- 6 (a) Explain E<sup>1</sup> and E<sup>2</sup> reactions.  
(b) Write a note on preparation and reactions of ethers.
- 7 (a) Write any three methods of preparation of aldehydes.  
(b) Write a note on basicity of amines.
- 8 (a) How do you differentiate 1<sup>o</sup>, 2<sup>o</sup> and 3<sup>o</sup> amines with chemical reactions?  
(b) Write about Hofmann elimination reactions.
- 9 (a) Write the general methods of preparation of carboxylic acids.  
(b) Outline the methods of preparation of amides and alcohols from carboxylic acids.
- 10 (a) Write about relative acidity of carboxylic acids.  
(b) Discuss synthesis and synthetic applications of malonic ester and aceto acetic ester.

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**FACULTY OF PHARMACY**

**B. Pharmacy II – Semester (CBCS) (Backlog) Examination, September 2021**

**Subject: Introduction to Dosage Forms**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any Four Questions**

**(4 x 17<sup>1/2</sup> = 70 Marks)**

- 1 a) Classify various dosage forms with examples  
b) Write the principle and procedure involved in the preparation of simple syrup
- 2 a) Define a spirit. Explain any two methods of preparation of spirits  
b) Distinguish between
  - i) Emulsions and suspensions
  - ii) Creaming and cracking
- 3 a) mention the types of tablet dosage forms. Write the methods of tablet preparation  
b) Differentiate hard gelatin and soft gelatin capsules.
- 4 a) Classify powders and write the general method of preparation of dusting powders and effervescent granules.  
b) Write a note on Insufflations.
- 5 Discuss about any two ointment bases and write the principle and procedure in the preparation of simple ointment and cold cream.
- 6 a) Discuss about various jelling agents used for the preparation of jellies and explain the method of preparation of jellies.  
b) Write the significance of displacement value.
- 7 Define and classify sterilization. Discuss about dry heat and moist heat sterilization with applications.
- 8 a) Write the general methods of preparation and marketed products of eye drops with labeling requirements.  
b) Give the composition and preparation of Normal saline solution.
- 9 What is incompatibility? Mention the types of incompatibilities. Discuss in detail about physical and chemical incompatibilities by giving suitable examples. Mention the methods to overcome them.
- 10 a) Explain about therapeutic incompatibility with examples  
b) Dispense the following prescription  
Rx  
Sulphadiazine            0.25g  
Sulphamerazine        0.25g  
Ammonium chloride    0.50g  
Prepare capsules  
Label: Take two capsules six hourly for cough

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**FACULTY OF PHARMACY**

**B. Pharmacy II-Semester (CBCS) (Backlog) Examination, September 2021**

**Subject: Human Anatomy & Physiology – II**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any four questions.**

**(4 x 17<sup>1/2</sup> = 70 Marks)**

- 1 a. Explain about the Internal and external respiration in the lungs  
b. Define the term Hypoxia and write about different types of Hypoxia.
- 2 Describe the structure and functions of Larynx and add a note on process of voice Production.
- 3 a. Describe the structures and functions of the brain stem.  
b. What is reflex arc? Explain the components of a reflex arc
- 4 What are cranial nerves? Explain different types of cranial nerves in detail.
- 5 a. Explain the structure and functions of pancreas.  
b. Discuss the histology of stomach with neat labelled diagram.
- 6 Define Digestion and explain the process of digestion and add a note on absorption of digested material.
- 7 a. What are hormones? Explain the regulation of hormonal secretions.  
b. Add a note on oxytocin and Anti diuretic hormone.
- 8 a. Write about synthesis, storage and release of thyroid hormones with a neat labelled diagram.  
b. Explain the terms hyperthyroidism and hypothyroidism.
- 9 Describe the anatomy of kidney with a neat labelled diagram. Explain the physiology of formation of dilute urine.
- 10 Explain in detail about female reproductive system.

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FACULTY OF PHARMACY

B. Pharmacy II Semester (CBCS) (Backlog) Examination, September 2021

Subject: Basic Computer Application - II

Time: 2 Hours

Max. Marks: 70

Note: Answer any four questions.

(4 x 17<sup>1/2</sup> = 70 Marks)

- 1 (a) Explain the structure of 'C' program.  
(b) Explain the input and output functions in 'C'.
- 2 (a) Describe the concept of type conversion.  
(b) Describe the various kinds of data types in 'C'.
- 3 (a) Explain about Logical operator and Conditional operator.  
(b) Explain about the Assignment operator and Arithmetic operator.
- 4 (a) Write difference between break and continue statements.  
(b) Write difference between while and do-while.
- 5 Write advantages and disadvantages of DBMS.
- 6 Explain about database development life cycle (DDLC).
- 7 Explain the constraints in SQL.
- 8 Explain DML commands with structure and examples.
- 9 (a) Explain about the cloud computing.  
(b) Write about difference between big data and data mining.
- 10 Explain in detail about chemical database design & their tools.

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**FACULTY OF PHARMACY**

**B. Pharmacy II – Semester (CBCS) (Backlog) Examination, September 2021**

**Subject: Communicative English**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any Four Questions**

**(4 x 17<sup>1/2</sup> = 70 Marks)**

- 1 a) Explain the role & importance of communication.  
b) "Selection of medium is the most essential concept in the effective communication". Discuss
- 2 a) "Preparation & Presentation are the two essential ingredients of making a speech' - Explain  
b) Write about the role of wit & Humor in communication.
- 3 a) What is the use of thesaurus?  
b) What are the polite expressions of agreeing & disagreeing
- 4 a) Write antonyms for the following words  
1) Formal      2) Induce      3) Decisive      4) Sturdy    5) Urban  
b) Write synonyms for the following words  
1) Enormous    2) Disgrace    3) Impulse      4) Dispute    5) Generous  
c) Write on the following one word substitutes  
1) Oases      2) Truant      3) Nostalgia      4) Anesthesia
- 5 a) Draft a memorandum calling for the explanation on the act of misconduct by an employee in your department as the personnel manager of the department.  
b) Write a letter to your father about your recent visit to an Industrial unit in Mumbai
- 6 a) Draft a letter of application with a copy of your resume for the post of marketing executive in a local medical firm.  
b) As a librarian of your organization, write a letter claiming compensation for 40 books which arrived in a damaged condition.
- 7 a) You are organizing a work shop on 'soft skills' Write a letter to the director or the local branch, British council, requesting him to inaugurate the work shop & to speak on the occasion.  
b) Discuss the advantages of listening in verbal communication as a method of learning. Differentiate between listening & hearing
- 8 a) Write in your own words about the role of teacher in the virtual class room Scenario

**..2**

- b) Rewrite as directed
- 1) A deer runs faster than a horse. (Change the degrees of comparison)  
(use correct form of the verb)
  - 2) My uncle lived in America ----- ten years (Use appropriate preposition)
  - 3) Wisdom is -----gift of god. (Insert article)
  - 4) The manager said "Where is your application" (Change in to indirect speech)
  - 5) I ---- (work) on the report since 8'O' clock. (use correct form of verb)
  - 6) The machine wraps the bread automatically (Change in to passive voice)
  - 7) She is the best artist, Isn't? (Correct the question tag)
  - 8) I want to meet you tomorrow (A polite question)
- 9 a) According to Swami Vivekananda, when will misery come to an end.  
b) How does CEM Joad praise our civilization.
- 10 a) Why was Carnegie a huge success as steel king.  
b) What does the author think about the rebelliousness in adolescents.

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**FACULTY OF PHARMACY**

**B. Pharmacy II-Sem. (CBCS) (Backlog) Examination, July 2021**

**Subject: Communicative English**

**Time: 2 Hours**

**Max. Marks: 70**

**PART – A**

**Note: Answer any four questions.**

**(4 X 5 = 20 Marks)**

1. What are the advantages of group communication?
2. Explain the role of Wit & Humor in communication and importance of communication.
3. Write the do's and don'ts in a group discussion.
4. Discuss the types and methods of learning and listening.
5. What is the use of Thesaurus and Dictionary?
6. Explain the situations for the use of polite expressions with the help of examples.
7. How do you conduct a seminar/conference?
8. Explain how to make an effective speech.

**PART – B**

**Note: Answer any two questions.**

**(2 x 10 = 20 Marks)**

9. Give the synonyms of the following:  
(a) Seam Stress (b) Benevolent (c) Ingenious (d) Vanish (e) Incessantly.
10. Give the antonyms of the following:  
(a) Promote (b) Civilised (c) Genuine (d) Urban (e) Advance.
11. One word substitutes.  
(a) Obliterate (b) Invalid (c) Unanimous (d) Optimist (d) Drudge.
12. Rewrite the sentence as directed.  
(a) The boy said, "I am doing my home work".  
(Change in to direct speech)  
(b) The robot does all the work.  
(Change to passive voice).  
(c) I saw \_\_\_\_ boy in park and \_\_\_\_ boy is dressed in white colour.  
(Fill in the blanks with appropriate articles)  
(d) I was walking \_\_\_\_ the field.  
(Insert appropriate preposition).  
(e) Reshmi is an efficient manager.  
(Question tag).

**PART – C**

**Note: Answer any five questions.**

**(5 x 6 = 30 Marks)**

13. Write the summary of 'The Generation gap' in your own words.
14. How do children react in adolescence?
15. What was the teaching of Swami Vivekananda regarding 'un attachment'.
16. State the reasons for human sufferings. How can they be removed?
17. Who was Andrew Carnegie and why was he addressed as 'steel king'.
18. Did Carnegie become a wiser and more useful man?
19. 'Civilisation has developed in spite of wars, yet it is in danger of being destroyed'.  
Why?
20. What does being civilized mean, according to CEM? Joad.
21. Draft a technical report.
22. Draft a letter of application for the post of marketing executive in a reputed pharmaceutical company.

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**FACULTY OF PHARMACY**

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

**Subject: Basic Computer Applications - II**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any Four question. All questions carry equal marks.**

**(4x17 ½ = 70Marks)**

1. (a) Explain the input and output functions in 'C'.  
(b) Describe the various kinds of data types in 'C'.
2. (a) Explain the concept of pre-processors in 'C'.  
(b) Write about Identifiers and constants in 'C'.
3. (a) Explain about the Assignment operator and Arithmetic operator.  
(b) Write difference between while and do-while.
4. Explain all types of IF statements in C.
5. Write advantages and disadvantages of DBMS.
6. (a) Explain about Relational model concept.  
(b) Write about the hierarchical and network data model.
7. Compare SQL Server and MS access.
8. Explain DML commands with structure and examples.
9. Write about the chemdraw.
10. (a) Explain about the cloud computing.  
(b) Write about difference between big data and data mining.

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## FACULTY OF PHARMACY

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

**Subject: Introduction to Dosage Forms**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any four questions.**

**(4x17½=70 Marks)**

1. (a) Define a dosage form. Write the classification of dosage forms.  
(b) Define and classify emulsions. Explain the method of preparation of emulsions.
2. (a) Discuss any two methods of preparation of spirits.  
(b) Distinguish the following:
  - (i) Flocculated and deflocculated suspensions.
  - (ii) Gargles and Throat paints.
3. (a) Mention the various types of tablet dosage forms. Write the methods of tablet preparation.  
(b) Differentiate hard gelatin and soft gelatin capsules.
4. (a) Classify powders and write the general method of preparation and marketed products of dusting powders and effervescent granules.  
(b) Write a note on lozenges.
5. Discuss about any two ointment bases and write the principle and procedure in the preparation of simple ointment and cold cream.
6. (a) Discuss about various jelling agents used for the preparation of jellies and explain the method of preparation of jellies.  
(b) Write the significance of displacement value.
7. Distinguish the following:
  - (a) Dry heat and moist heat sterilization.
  - (b) Tyndallization and Pasteurization.
  - (c) Vials and ampoules.
  - (d) Water for injection and distilled water.
8. (a) Write the composition and preparation of normal saline and dextrose normal saline solution.  
(b) Write a note on nasal drops.
9. What is incompatibility? Mention the types of incompatibilities. Discuss in detail about physical and chemical incompatibilities by giving suitable examples. Mention the methods to overcome them.
10. (a) Explain about therapeutic incompatibility with examples.  
(b) Mention the type of incompatibility and write the method to overcome in the following.

Rx

Thymol	250 mg
Camphor	2 mg
Menthol	2 mg

Make powder.

Library

G.Pulla Reddy College of Pharmacy, Hyderabad

**FACULTY OF PHARMACY**

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

**Subject: Pharmaceutical Organic Chemistry - I**

**Time: 2 Hours**

**Max. Marks: 70**

**Note: Answer any four questions.**

**(4x17½=70 Marks)**

1. (i) Explain the effect of Intermolecular forces.  
(ii) Discuss Atomic and Molecular Orbitals.  
(iii) Explain Mesomerism.
2. (a) Discuss the energy diagrams of reactants and products during the course of the reaction.  
(b) Give an account of transition state theory.
3. (a) Explain the configuration and conformation of cyclohexane.  
(b) Explain Sachse-Mohr theory.
4. (a) Discuss stability of conjugated dienes.  
(b) Describe acidity of 1-Alkynes.  
(c) Write any three methods of preparation of Cycloalkanes.
5. (a) Explain in detail SN<sup>1</sup> reaction.  
(b) Write note on Williamson's synthesis and Ziesels method.
6. (a) Write chemical properties and methods of preparation of Ethers.  
(b) Write a note on Sayetzeffs Rule.
7. (a) Write the reaction and mechanism of following:  
(i) Aldol condensation.  
(ii) Witing reaction.  
(iii) Reformatsky reaction.  
(b) Write the methods of preparation of Diazonium salts.
8. (a) Give the reaction of amines with Nitrous acid, Alkylaton and Acylation.  
(b) Write a note on basicity of amines.
9. (a) Write any two methods of preparation of Acid Chlorides, Esters and Amides each.  
(d) Explain Nucleophilic substitution reaction for Carboxylic acids.

**OR**

10. (a) Discuss the reactivity and synthetic applications of Acetoacetic esters.  
(b) Write general methods of preparation of Carboxylic acids.

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**FACULTY OF PHARMACY**

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

**Subject : Human Anatomy and Physiology-II**

**Time: 2 Hours**

**Max. Marks: 70**

**Note : Answer any Four questions**

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

1. a) Explain in detail about the transport of O<sub>2</sub> and CO<sub>2</sub> in blood with help of a diagram.  
b) Discuss the factors affecting the transport of O<sub>2</sub> in the blood.
2. Explain the mechanisms of regulating respiration.
3. a) Describe the structure and functions of spinal cord.  
b) Explain the physiology of Neurotransmission.
4. a) Describe the anatomy of cerebrum.  
b) Describe anatomy and functions of spinal cord.
5. a) Discuss the digestion process in small intestine.  
b) Write the histology of GI tract.
6. a) Discuss the phases of digestion.  
b) Write about the process of absorption in GI.
7. a) Briefly write about the pituitary gland hormones.  
b) Explain calcium Homeostasis with the help of a diagram.
8. a) Discuss the physiology of adrenal gland.  
b) Write about anatomy and functions of pancreas.
9. a) Explain about the formation of dilute urine with a neat labeled diagram.  
b) What is GFR? (Glomerular filtration rate). Discuss the hormonal regulation of GFR.
10. a) What is Oogenesis? Explain.  
b) Explain about various in-vitro Fertilization methods.

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## FACULTY OF PHARMACY

## B. Pharmacy II-Sem (CBCS) (Backlog) Examination, August 2019

Subject: Pharmaceutical Organic Chemistry - I

Time: 3 Hours

Max. Marks: 70

Note: Answer ALL questions. All questions carry equal marks.

1. (a) Define Hybridization. Discuss  $sp^1$ ,  $sp^2$ ,  $sp^3$  hybridization with suitable examples. 8
- (b) Discuss the following with suitable examples.  
 i) Heterothesis      ii) Intermolecular forces      iii) Bond angles
- OR
- (c) What is activation energy? Discuss the energy diagrams of reactants and products during the course of reaction. 8
- (d) Write notes on any **two** of the following:  
 (i) Electromeric effect    (ii) Mesomeric effect    (iii) Molecular orbitals
2. (a) (i) Write any two general methods to prepare alkenes. 6
- (ii) Explain kharasch effect with suitable examples. 4
- (iii) Discuss stability of conjugated dienes. 4
- OR
- b) (i) Discuss importance of Bayer's strain theory. 7
- (ii) Explain the stability of cycloalkanes by different theories. 7
3. (a) (i) Discuss the mechanism and stereochemistry of  $SN^1$  reaction. 7
- (ii) Write any two methods to prepare Alcohols. 7
- OR
- (b) Discuss the following.  
 (i) Nucleophilic Substitution v/s Elimination. 7
- (ii) Write note on Williamson's Synthesis and Ziesel's method. 7
4. (a) (i) Discuss any two nucleophilic addition reaction of Carbonyl compounds with mechanism. 7
- (ii) Write any two methods each to prepare Aldehydes and Ketones. 7
- OR
- (b) (i) How do you separate a mixture of Primary, Secondary and tertiary amines with chemical reaction. 7
- (ii) Give the Synthesis and applications of aryldiazonium salts. 7
5. (a) (i) Write general methods of preparation of Carboxylic acids. 7
- (ii) Discuss the methods of preparation of amides and esters from Carboxylic acids. 7
- OR
- (b) (i) Write the reactivity and synthetic uses of ethyl acetoacetate. 7
- (ii) Explain in detail the acidity of Carboxylic acids with examples. 7

## FACULTY OF PHARMACY

B. Pharmacy II – Semester (CBCS) (Backlog) Examination, August 2019

Subject: Human Anatomy Physiology-II

Time: 3 Hours

Max. Marks: 70

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

1. a) Define Pulmonary Ventilation and write a note on Physiology of Ventilation with suitable diagrams. 10  
 b) Give a note on the anatomy of lungs. 4  
**OR**  
 (c) Explain about the Interval and external respiration in the lungs and write the factors affecting the binding of O<sub>2</sub> and CO<sub>2</sub> with haemoglobin. 10  
 (d) Define the term Hypoxia and write about different types of Hypoxia. 4
2. a) Write a detailed note on physiology of neuro transmission with diagram. 7  
 b) Write a note on Diencephalon 7  
**OR**  
 c) Discuss the structure of spinal cord with the help of a diagram. 5  
 d) What is reflex are write a note on stretch reflex with help of a diagram. 5
3. a) Write a note on the histology of digestive system 6  
 b) Briefly describe about the digestion in the intestine. 8  
**OR**  
 c) (i) Give the summary of digestion of proteins, Carbohydrates and fats in the GIT. 10  
 (ii) Write a note on Peritalsis. 4
4. a) Write about synthesis, storage and release of thyroid hormones with a neat labeled diagram. 6  
 b) Write the functions of human growth hormone.  
**OR**  
 b) Explain about the anatomy and physiology of Adrenal gland. 9  
 d) Write a note on mineralocorticoids 4
5. a) Write the physiology of formation of concentrated Urine with a neat labeled diagram. 10  
 b) Give a brief note on Labor. 4  
**OR**  
 c) Write a note on female reproductive cycle. 7  
 d) Write in detail about the structure and functions of kidney. 3  
 e) Briefly write about glomerular filtration rate. 4

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**FACULTY OF PHARMACY**  
**B. Pharmacy II-Sem (CBCS) (Backlog) Examination, July / August 2019**

**Subject: Introduction to Dosage Forms**

**Time: 3 Hours**

**Max. Marks: 70**

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

1. (a) Classify various dosage form with examples. 4  
 (b) Write the principle and procedure involved in the preparation of simple syrup. 6  
 (c) Write any two methods of preparation of Spirits. 4  

**OR**

 (d) Distinguish the following: 4+4+4+2  
 (i) Flocculated and deflocculated suspension.  
 (ii) Creaming and Cracking.  
 (iii) Lotions and Liniments.  
 (iv) Gargles and Throat paints.
  
2. (a) Mention the various types of tablet dosage forms. Write the methods of tablet preparation. 10  
 (b) Differentiate hard gelatin and soft gelatin capsules. 4  

**OR**

 (c) Classify powders and write the general method of preparation and marketed products of dusting powers and effervescent granules. 10  
 (d) Write a note on lozenges. 4
  
3. (a) Discuss about any two ointment bases and write the principle and procedure in preparation of simple ointment and cold cream. 14  

**OR**

 (b) Discuss about various jelling agents used for the preparation of jellies and explain the method of preparation of jellies. 10  
 (c) Write the significance of displacement value. 4
  
4. (a) Define sterilization? Classify the methods of sterilization. Discuss about dry heat sterilization with applications. 8  
 (b) Write a note on sterility tests. 6  

**OR**

 (c) Write the general methods of preparation and marketed products of eye drops with labeling requirements. 8  
 (d) Give the composition and preparation of ringer lactate solution. 6
  
5. (a) What is incompatibility? Mention the types of incompatibilities. Discuss in detail about physical incompatibility by giving suitable examples. Mention the methods to overcome. 10

(b) Dispense the following prescription.

Rx

Sulphadiazine 0.25 g

Sulphamerazine 0.25 g

Ammonium chloride 0.50 g

Prepare capsules.

*Label:* Take two capsules six hourly for cough.

4

OR

(c) Explain about chemical incompatibility with examples.

9

(d) Mention the type of incompatibility and write the method to overcome in the following.

5

Rx

Quinine So<sub>4</sub> – 2 gm

Hydrochloric acid – 5 ml

KI – 1 gm

Water upto – 50 ml

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## FACULTY OF PHARMACY

## B. Pharmacy II-Sem (CBCS) (Backlog) Examination, August 2019

## Subject: Pharmaceutical Organic Chemistry - I

Time: 3 Hours

Max. Marks: 70

Note: Answer ALL questions. All questions carry equal marks.

1. (a) Define Hybridization. Discuss Sp<sup>1</sup>, Sp<sup>2</sup>, Sp<sup>3</sup> hybridization with suitable examples. 8
- (b) Discuss the following with suitable examples.  
 i) Heterohsis                      ii) Intermolecular forces                      iii) Bond angles
- OR**
- (c) What is activation energy? Discuss the energy diagrams of reactants and products during the course of reaction. 8
- (d) Write notes on any two of the following:
2. (a) (i) Write any two general methods to prepare alkenes. 6
- (ii) Explain kharasch effect with suitable examples. 4
- (iii) Discuss stability of conjugated dienes. 4
- OR**
- b) (i) Discuss importance of Bayer's strain theory. 7
- (ii) Explain the stability of cycloalkanes by different theories. 7
3. (a) (i) Discuss the mechanism and stereochemistry of SN<sup>1</sup> reaction. 7
- (ii) Write any two methods to methods to prepare Alcohols. 7
- OR**
- (b) Discuss the following.  
 (i) Nucleophilic Substitution v/s Elimination. 7
- (ii) Write note on Williamson's Synthesis and Ziesel's method. 7
4. (a) (i) Discuss any two nucleophilic addition reaction of Carbonyl compounds with mechanism. 7
- (ii) Write any two methods each to prepare Aldehydes and Ketones. 7
- OR**
- (b) (i) How do you separate a mixture of Primary, Secondary and tertiary amines with chemical reaction. 7
- (ii) Give the Synthesis and applications of aryldiazonium salts. 7
5. (a) (i) Write general methods of preparation of Carboxylic acids. 7
- (ii) Discuss the methods of preparation of amides and esters from Carboxylic acids. 7
- OR**
- (b) (i) Write the reactivity and synthetic uses of ethyl acetoacetate. 7
- (ii) Explain in detail the acidity of Carboxylic acids with examples. 7



**FACULTY OF PHARMACY**

**B. Pharmacy II-Semester (CBCS) (Backlog) Examination, August 2019**

**Subject: Basic Computer Applications - II**

**Time: 3 Hours**

**Max. Marks: 70**

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

1. (a) Explain the concept of type conversions.  
(b) What are the input and output functions in C language.  
**OR**  
(c) Explain the concept of pre-processors in C.  
(d) Explain the process of writing and executing C-program.
2. (a) Explain the following:  
(i) Special operators (ii) Relational operator (iii) Bit-wise operator  
**OR**  
(b) Explain difference between break and continue statements.  
(c) What in an array? Explain the different types of arrays.
3. (a) Explain the advantages and disadvantages of DBMS.  
(b) Explain the concepts of data, information, Records and files.  
**OR**  
(c) Explain the characteristics of DBMS.
4. (a) Explain the TCL in SQL.  
(b) Explain the constraints in SQL.  
**OR**  
(c) Compare MS access Vs SQL server.
5. (a) Explain heterogeneous storage.  
(b) Discuss about cloud computing.  
**OR**  
(c) Explain the process of data mining.

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**FACULTY OF PHARMACY**

**B. Pharmacy II – Semester (CBCS) (Backlog) Examination, January 2019**

**Subject: Basic Computer Applications – II**

**Time: 3 Hours**

**Max.Marks: 70**

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

- 1 a) Explain the concept of type conversions.  
b) Discuss about storage classes.

**OR**

- 2 a) Explain the process of writing and executing C-program.  
b) What is identifier and constants?

- 3 Explain the following:  
a) Arithmetic operator  
b) Logical operator  
c) Assignment operator.

**OR**

- 4 a) What is an array? Explain the different types of arrays?  
b) Explain difference between while and do-while.

- 5 a) Explain the concepts of records and files.  
b) Discuss traditional file based system and limitations.

**OR**

- 6 Explain the process of conversion of ER-Model to table.

- 7 a) Explain the constraints in SQL.  
b) Explain difference among the Delete, Drop and Truncate.

**OR**

- 8 Create customers table and present the 10 customers values into table with ID, NAME, ADDRESS, SALARY where ID is primary key and print the result.

- 9 a) Explain the process of data analysis.  
b) Discuss about cloud computing.

**OR**

- 10 Explain chemsketch and chemdraw.

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## FACULTY OF PHARMACY

B. Pharmacy II – Semester (CBCS) (Backlog) Examination, January 2019

Subject: Introduction to Dosage Forms

Time: 3 Hours

Max.Marks: 70

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

- 1 Define and classify dosage forms with examples. 14  
OR
- 2 Differentiate between lotions and liniments. 14  
OR
- 3 Define capsules. Write a note on preparations of soft gelatin capsules. 14  
OR
- 4 Write a note on the following: 14  
a) Effervescent granules  
b) Lozenges  
c) Eutectic mixtures
- 5 a) Differentiate between ointments and creams. 4  
b) Write a note on ointment bases. 10  
OR
- 6 Define suppositories. Write a note on suppository bases. Add a note on method of preparation of Boric acid suppositories. 14
- 7 Write a note on the following: 14  
a) Water for infection  
b) Sterile water  
c) Sterility  
OR
- 8 Define parenterals. Write a note on general method of preparation of normal saline and ringer lactate. 14
- 9 a) Define incompatibility. Classify physical incompatibility with examples. 10  
b) Write a note on therapeutic incompatibility. 4  
OR
- 10 Identify and suggest remedy for the following incompatible preparations. 14
- |               |       |                           |       |
|---------------|-------|---------------------------|-------|
| a) Phenacetin | 3 gm  | b) Menthol                | 5 gm  |
| Caffeine      | 1 gm  | Camphor                   | 5 gm  |
| Orange syrup  | 12 ml | Ammonium chloride         | 30 gm |
| Water upto    | 90 ml | Light Magnesium carbonate | 60 gm |
| c) Castor oil | 15 ml |                           |       |
| Water         | 60 ml |                           |       |

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## FACULTY OF PHARMACY

B. Pharmacy II – Semester (CBCS) (Backlog) Examination, January 2019

Subject: Pharmaceutical Organic Chemistry – I

Time: 3 Hours

Max.Marks: 70

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

- 1 Discuss the following with suitable examples:
- a) Different types of covalent bonds. 4
  - b) Solubility 6
  - c) Polarity of molecules 4
- OR**
- 2 Explain with suitable examples
- a) Inductive effect 6
  - b) Resonance
  - c) Explain energy diagrams of reactants and products during the course of reaction. 8
- 3
- a) Write the mechanism of free radical reactions. 7
  - b) Write any two methods of synthesis of alkenes. 7
- OR**
- 4
- a) Write any two general methods of preparation of alkynes or alkenes. 7
  - b) Discuss the importance of Bayer's strain theory. 7
- 5 Explain the mechanism of:
- a)  $SN^1$  and  $SN^2$  reactions 7
  - b)  $E^1$  and  $E^2$  reactions 7
- OR**
- 6
- a) Write in brief about the preparation and reactions of ethers. 8
  - b) Write note on preparation of alkyl halides. 6
- 7
- a) Write any four methods for preparation of aldehyde compounds. 7
  - b) Write about the general reactions of carboxyl compounds. 7
- OR**
- 8
- a) Write note on reactive basicity of amines. 7
  - b) How do you differentiate between primary, secondary and tertiary amines with chemical reactions? 7
- 9
- a) Write the synthetic applications of acetoacetic ester and malonic ester. 7
  - b) Write any two methods for synthesis of carboxylic acids. 7
- OR**
- 10
- a) Explain in detail the acidity of carboxylic acids. 7
  - b) Outline the methods of preparation of acid chlorides and esters from carboxylic acids. 7

**FACULTY OF PHARMACY****B. Pharmacy II – Semester (CBCS) (Backlog) Examination, January 2019****Subject: Human Anatomy and Physiology – II****Time: 3 Hours****Max.Marks: 70****Note: Answer all questions. All questions carry equal marks.**

- 1 a) Describe the structure and functions of Larynx and add a note on process of voice Production. (8+6)
- OR**
- 2 a) What is alveolar Ventilation? Explain the different types mechanisms involved in the regulation of respiration. (2+8)  
b) Describe the structure of lung with a neat labeled diagram. (4)
- 3 a) What is reflex arc? Explain the components of reflex arc. (8)  
Define the following terms with examples: (6)  
b) Synapse  
c) Ganglion  
d) Plexus
- OR**
- 4 Describe the structure and functions of brain and spinal cord. (14)
- 5 a) Define Digestion and explain the process of digestion and add a note on absorption of digested material. (10+4)
- OR**
- 6 a) Explain the structure and functions of small intestine with a neat labeled diagram. (8)  
b) Write about different phases of digestion. (6)
- 7 a) Discuss about the structure and functions of pituitary hormones. (10)  
b) Write short note on pineal body. (4)
- OR**
- 8 a) What are hormones? Explain the regulation of hormonal secretions. (2+6)  
b) Explain the structure and functions of pancreas. (6)
- 9 a) Write in detail about the physiology of urine formation and add a note on micturition. (10)  
b) Draw a neat labeled diagram of nephron. (5)
- OR**
- 10 a) Explain the process of spermatogenesis. (8)  
b) Write short note on menstrual cycle. (6)

**FACULTY OF PHARMACY**

**B. Pharmacy II – Semester (CBCS) (Backlog) Examination, February 2019**

**Subject: Communicative English**

**Time: 3 Hours**

**Max.Marks: 70**

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

**PART – A (4x5 = 20 Marks)**

- 1 What are the advantages of group communication?  
**OR**
- 2 Explain the role of wit and humour in communication.
- 3 What is the role of body language in oral communication?  
**OR**
- 4 Explain how to make an effective speech.
- 5 What is the use of thesacoues?  
**OR**
- 6 How to tender apology? Discuss with the help of examples.
- 7 Write a short paragraph on 'Role of traffic rules in prevention of road accidents'.  
**OR**
- 8 Draft a message to your friend about your leaving to Hyderabad on some important work.

**PART – B (4x5 = 20 Marks)**

- 9 Give the synonyms for the following:  
a) Anguish                      b) Anaesthetic                      c) Tantrum                      d) Incessantly  
e) Endeavour
- 10 Give the antonyms for the following:  
a) Defendant                      b) Timid                      c) Pride                      d) Amateur  
e) Enormous
- 11 Explain the following one word substitutes in one or two sentences.  
a) Theist                      b) Wriggles                      c) Asylum                      d) Invalid  
e) Envision
- 12 Rewrite the sentence as directed:  
a) Reshmi is an efficient manager (Question tag)  
b) I saw \_\_\_\_\_ boy in park, dressed in white colour (Insert appropriate article).  
c) I was walking \_\_\_\_\_ the field (Insert preposition)  
d) Jack said "I can kill any gaint" (Change in to indirect speech).  
e) A post and has been sent to Ram (Change to passive voice).

**PART – C (5x6 = 30 Marks)**

13 What does being civilized mean, according to C.E.M. Joad.

**OR**

14 What are the defects of our civilization, according to CEM Joad?

15 Did Carnegie become wiser and more useful a man.

**OR**

16 How did Carnegie 'Gospel of wealth' influence the modern world?

17 What was the teaching of Swami Vivekananda regarding work?

**OR**

18 How can one not be touched by sin, according to swami Vivekananda?

19 What are the three principal elements to make up the identify of an individual?

**OR**

20 What does author think about rebelliousness in adolescents?

21 Draft a letter of application for the post of marketing executive in a reputed pharmaceutical company.

**OR**

22 Write a note on making a technical report.

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## FACULTY OF PHARMACY

B. Pharmacy – II Semester (CBCS) (Backlog) Examination, August 2018

Subject: Introduction to Dosage Forms

Time: 3 Hours

Max.Marks: 70

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

1. a) Define a dosage form. Write the classification of dosage forms on the basis of formulation. (5)  
 b) Define and classify emulsions. Explain the method of preparation of emulsions. (9)  
**OR**  
 c) Distinguish the following:  
 i) Flocculated and deflocculated suspensions  
 ii) Creaming and Cracking.  
 iii) Lotions and Liniments  
 iv) Syrups and Elixirs  
 v) Gargles and Throat paints (3+3+3+3+2)
- 2 a) Classify Tablets? Write the general method of preparation of tablets. (7)  
 b) Differentiate hard gelatin and soft gelatin capsules. Write the processing of hard gelatin capsules. (7)  
**OR**  
 c) Classify powders? Write the principle and procedure involved in the preparation of effervescent granules. (10)  
 d) Write a note on Tablet triturates. (4)
- 3 a) Discuss about any two ointment bases and write the principle and procedure in the preparation of simple ointment and cold cream. (14)  
**OR**  
 b) Discuss about the different bases used in the preparation of suppositories. (10)  
 c) Distinguish between pastes and jellies. (4)
- 4 a) Define sterilization? Classify the methods of sterilization. Discuss about dry Heat sterilization with applications. (8)  
 b) Write a note on sterility tests. (6)  
**OR**  
 c) Write the general methods of preparation and marketed products of eye drops with labeling requirements. (8)  
 d) Give the composition and preparation of Ringer Lactate solution. (6)
- 5 a) What is incompatibility ? Mention the types of incompatibilities. Discuss in detail about physical incompatibility by giving suitable examples. Mention the methods to overcome. (10)



b) How do you Dispense the following prescription

Rx

Sulphadiazine	0.25 g
Suilphamerazine	0.25 g
Ammonium Chloride	0.50 g

Prepare capsules

Label: Take two capsules six hourly for cough

(4)

**OR**

c) Explain about chemical incompatibility with examples.

(10)

d) Mention the type of incompatibility and write the method to overcome in the following prescription

(4)

Rx

Thymol	250 mg
Camphor	2 mg
Menthol	2 mg

Make powder.

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**FACULTY OF PHARMACY**

**B. Pharmacy II-Semester (CBCS) (Backlog) Examination, August 2018**

**Subject: Communicative English**

**Time: 3 Hours**

**Max.Marks: 70**

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

- 1 a) Identify the skills required for the effective participation in a discussion.  
**OR**  
b) Discuss the steps we take in order to achieve a successful communication'.
- 2 a) Differentiate between one way and two way communication with good examples.  
**OR**  
b) Explain the use of thesaurus in building your vocabulary.
- 3 a) Draft a letter to the Principal of your College mentioning your suggestions to improve the standard of the college library.  
**OR**  
b) What are the necessary precautions to be taken before and at the time of delivering a speech ?
- 4 a) List some techniques to improve listening ability.  
**OR**  
b) Write a short note on the importance of body language in formal communication?

**PART- B (4X5=20 Marks)**

1. Give the synonym for the following:  
(a) Ingenious (b) Significance (c) eternal (d) perplexity (e) irrational
- 2 Give the antonym for the following:  
(a) Generous (b) incessantly (c) Colossal (d) sturdy (e) turmoil
- 3 Explain the following one word substitutes in one or two sentences:  
a) benevolent b) threshold c) asylum d) optimist e) frontiers.
4. Rewrite the sentences as directed.
  - a) The carpenters were making chairs. (Change into passive voice).
  - b) He makes thirty thousand toys year. (insert article).
  - c) The officer said to the clerk." You must do it". (Change into indirect speech).
  - d) He \_\_\_\_\_(play) the whole day and now he is tired. (Use the correct form of the verb).

**PART-C (5X6=30 Marks)**

1 a) Elaborate C.E.M. Toad's views on defects of our civilization.

**OR**

b) Why is modern civilization more secure today?

2 a) "With the prosperity of America after the Civil War, there were many rich men besides Carnegie. But, Carnegie became rich with a different purpose in mind." What was it?

**OR**

b) How do you know that Andrew Carnegie was not born rich ? Write few sentences about his early life to justify your answer?

3 a) 'What we are determined every moment by the sum total of these impressions on the mind'. What are these impressions? How do they mould a man's character?

**OR**

b) According to Swami Vivekananda, when can man become free and unattached? What happens when he reaches this stage ?

4 a) What are the reasons of some of the failures in school or university performances?

**OR**

b) Describe Spock's experience as a psychiatrist in mountain regions of Kentucky and Tennessee.

5 a) What is the role of Wit and Humour in communication ?

**OR**

b) Summarize the important guidelines to be followed while giving a presentation.

**FACULTY OF PHARMACY**

**B. Pharmacy – II Semester (CBCS) (Backlog) Examination, August 2018**

**Subject: Basic Computer Applications-II**

**Time: 3 Hours**

**Max.Marks: 70**

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

- 1 a) What is the importance of C- Language.  
b) Describe the C- Token's ?

**OR**

- c) What are the data types in C-Language, explain with examples.  
d) Write a Structure of C-Program. Explain the steps?

- 2 a) Explain arithmetic and logical operators.  
b) Write a program to find grade of the student marks (total Marks =1000)

**OR**

- c) Explain assignment operators and conditional operators.  
d) Write one and two dimensional array with an example.

- 3 a) Explain the traditional File based System and Characteristics.  
b) Explain the advantages of data base management system.

**OR**

- c) Write the difference between File based System and data based system.  
d) Explain E-R Model concepts with tables.

- 4 a) Write DML DDL commands in SQL.  
b) Difference between MS access and SZL database.

**OR**

- c) Define data types in SQL and its functionality.  
d) Explain commit, roll back save point.

- 5 a) Explain cloud computing.  
b) Explain Data Mining with diagram.

**OR**

- c) Explain big data concepts.  
d) Write briefly chem. sketch in data base design.

## FACULTY OF PHARMACY

B. Pharmacy II-Semester (CBCS) (Backlog) Examination, July 2018

Subject: Pharmaceutical Organic Chemistry-I

Time: 3 Hours

Max.Marks: 70

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

- 1 a) Define Hybridization. Discuss  $SP^1$ ,  $SP^2$  and  $SP^3$  hybridization with suitable examples. 8
- b) Discuss the following with suitable examples. 6  
(a) Heterolysis (b) Intermolecular forces (c) Bond Angles.
- OR**
- c) What is activation energy. Discuss the energy diagrams of reactants and products during the course of the reaction. 8
- d) Write note on the following 6  
(i) Electrometric effect (ii) Mesomen's effect (iii) Molecular Orbital's.
- 2 a) Write any two general methods of preparation of alkenes. 6  
i) Explain Kharasch effect with examples. 4  
ii) Discuss stability of conjugated dienes. 4
- OR**
- b) i) Discuss importance of Bayer's Strain Theory 7  
ii) Explain the stability of Cycloalkanes by different theories. 7
- 3 a) i) Discuss the mechanism and stereochemistry of  $SN^1$  reaction with examples. 8  
ii) Write any two methods of preparation of Alcohols. 6
- OR**
- b) Discuss the following 7  
i) Nucleophilic substitution V/s Elimination 7  
ii) Write note on William Son's synthesis and Ziesel's method. 7
- 4 a) i) Discuss any two Nucleophilic addition reactions of carbonyl compounds with mechanism. 6  
ii) Write any two methods each to prepare Aldehydes and Ketones. 8
- OR**
- b) i) How do you separate a mixture of primary, secondary and tertiary amines based on Chemical reaction. 7  
ii) Give the synthesis and applications of aryl diazonium Salts. 7
- 5 a) i) Write general methods of preparation of Carboxylic acids. 7  
ii) Discuss the methods of preparation of amides and esters from Carboxylic acids. 7
- OR**
- b) i) Write the reactivity and synthetic uses of ethyl acetoacetate. 7  
ii) Explain in detail the acidity of Carboxylic acids with examples. 7

## FACULTY OF PHARMACY

B. Pharmacy II – Semester (CBCS) (Backlog) Examination, August 2018

Subject: Human Anatomy and Physiology – II

Time: 3 Hours

Max.Marks: 70

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

- 1 a) Write in detail about the physiology of respiration. (14)  
**OR**  
 b) Explain the different types of pulmonary volumes and capacities and add a note on alveolar Ventilation. (10)  
 c) Describe the structure of nose with a neat labeled diagram. (4)
- 2 a) Write about the structure and functions of neuron with a labeled diagram. (6)  
 b) Define Neurotransmission and explain how it occurs? And explain the steps involved in neurotransmission. (8)  
**OR**  
 c) What are cranial nerves? And explain different types of cranial nerves in detail. (14)
- 3 a) Define Digestion and explain the process of digestion and add a note on absorption of digested material. (10+4)  
**OR**  
 b) Explain the structure and functions of pancreas. (7)  
 d) Discuss the histology of stomach with a neat labeled diagram. (7)
- 4 a) Describe the mechanism of hormone action. (8)  
 b) What are posterior pituitary hormones? And write about their physiological role. (6)  
**OR**  
 c) Explain the structure and functions of thyroid hormones. (8)  
 d) Write short note on gonads. (6)
- 5 a) Write in detail about the physiology of urine formation and add a note on micturition. (10)  
 b) Draw a neat labeled diagram of nephron. (5)  
**OR**  
 c) Explain the process of spermatogenesis. (8)  
 d) Write short note on in-vitro fertilization. (6)

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## FACULTY OF PHARMACY

B. Pharmacy II-Semester (CBCS) (Suppl.) Examination, January 2018

Subject : Pharmaceutical Organic Chemistry – I

Time : 3 Hours

Max. Marks: 70

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

- 1 (a) Define Hybridization. Discuss  $sp$ ,  $sp^2$ ,  $sp^3$  hybridization with suitable examples. (8)  
 (b) Discuss the following with suitable example:  
 (i) Heterolysis (ii) Intermolecular forces (iii) Bond angles (6)  
**OR**  
 (c) What is activation energy? Discuss the energy diagrams of reactants and products during the course of reaction. (8)  
 (d) Write note on the following: (6)  
 (i) Electrometric effect (ii) Mesomeric effect (iii) Molecular orbitals
- 2 (a) (i) Write any three general methods to prepare alkenes. (4)  
 (ii) Explain Kharasch effect with examples. (4)  
 (iii) Discuss stability of conjugated dienes. (4)  
**OR**  
 (b) (i) Discuss importance of Bayer's strain theory. (7)  
 (ii) Explain the stability of cycloalkanes by different theories. (7)
- 3 (a) (i) Discuss the mechanism and stereo chemistry of  $SN^1$  reaction. (7)  
 (ii) Write any three methods to prepare Alcohols. (7)  
**OR**  
 (b) Discuss the following:  
 (i) Nucleophilic substitution V/s Elimination. (7)  
 (ii) Write note on Williamson's synthesis and zeisels method (7)
- 4 (a) (i) Discuss any three Nucleophilic addition reactions of carbonyl compounds with mechanism. (7)  
 (ii) Write any two methods each to prepare Aldehydes and Ketones. (7)  
**OR**  
 (b) (i) How do you separate a mixture of primary, secondary and tertiary amines with chemical reactions? (7)  
 (ii) Give the synthesis and applications of aryl diazonium salts. (7)
- 5 (a) (i) Write any three general methods of preparation of carboxylic acids. (7)  
 (ii) Discuss the methods of preparation of amides and esters. (7)  
**OR**  
 (b) (i) Write the reactivity and synthetic uses of ethyl acetoacetate. (7)  
 (ii) Explain in detail the acidity of carboxylic acids with examples. (7)

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**FACULTY OF PHARMACY**

**B. Pharmacy II – Semester (CBCS) (Suppl.) Examination, January 2018**

**Subject : Communicative English**

**Time : 3 hours**

**Max. Marks : 70**

**PART – A (4 x 5 = 20 Marks)**

- 1 a) Write a note on verbal and non-verbal communication.  
**OR**  
b) How to make the communication effective by overcoming the barriers of communication?
- 2 a) What is the importance of evaluation and organising the collected information for presentation?  
**OR**  
b) Write the do's and don'ts in a group discussion.
- 3 a) Write a note on formal and informal English.  
**OR**  
b) Explain the situations for the use of polite expressions with examples.
- 4 a) Discuss the advantages of listening in verbal communication as a method of learning.  
**OR**  
b) As the head boy of the college, draft a notice for all the students announcing the launch of the social responsibility programs for raising funds for street children and orphans.

**PART – B (4 x 5 = 20 Marks)**

- 1 Give the synonyms for the following :
- |                |               |              |
|----------------|---------------|--------------|
| a) Seam stress | b) Benevolent | c) Ingenious |
| d) Vigilant    | e) Colossal   |              |
- 2 Give the antonyms for the following :
- |            |                |                |
|------------|----------------|----------------|
| a) Promote | b) Civilized   | c) Destruction |
| d) Futile  | e) Conceivable |                |
- 3 Explain the following one word substitutes in sentence.
- |               |              |           |
|---------------|--------------|-----------|
| a) Hayrick    | b) Drudge    | c) Enigma |
| d) Accentuate | e) Indelible |           |
- 4 Rewrite as directed
- a) I want to meet you tomorrow. (A polite question)
- b) It is \_\_\_\_\_ unfortunate incident. (insert appropriate articles)
- c) I am sorry \_\_\_\_\_ my misconduct. (insert appropriate preposition)
- d) They said to him, "we will hand over out work tomorrow. (change into indirect speech).
- e) The robot does all the work. (change to passive voice).



**PART – C** (5 x 6 = 30 Marks)

- 1 a) How important are order and safety? Explain with examples.  
**OR**  
b) Why is it important to setup some form of world government?
- 2 a) Why was Carnegie a huge success as steel king?  
**OR**  
b) What made Carnegie's life always full and interesting?
- 3 a) According to Swami Vivekananda, how is each man's character determined.  
**OR**  
b) When will misery come to an end?
- 4 a) Why does 'School failure' occur according to Benjamin Spock?  
**OR**  
b) Why do some boys turn their irritation towards their fathers?
- 5 a) Draft a covering letter with an enclosed resume for the post of analyst in a pharmaceutical company.  
**OR**  
b) Draft a technical report.

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## FACULTY OF PHARMACY

B. Pharmacy II-Semester (CBCS) (Suppl.) Examination, January 2018

Subject : Introduction to Dosage Forms

Time : 3 Hours

Max. Marks: 70

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

- 1 (a) Define drug and write a note on different excipients used in the preparation of dosage forms. (14)
- OR**
- (b) Explain the general methods of preparation, labeling and marketed Products of lotions and liniments.
- 2 (a) Define tablet and add a note on advantages, disadvantages and different types of tablets. (14)
- OR**
- (b) Write a note on methods of preparations and marketed products of effervescent granules and eutectic mixtures.
- 3 (a) What are ointments? Write advantages, disadvantages and different types of ointment bases. (14)
- OR**
- (b) Write a note on preparation of vanishing and cold cream.
- 4 (a) Define sterilization. Write a note on different methods of sterilization and their advantages and disadvantages. (14)
- OR**
- (b) Write a note on preparation methods of the following:
- (i) Eye drops
  - (ii) Ear drops
  - (iii) Nasal drops
- 5 (a) Define Incompatibility. Write in detail note on chemical incompatibility with suitable examples. (14)
- OR**
- (b) Identify and suggest remedy for below incompatible preparations. (4.5+4.5+5)
- (i) Quinine hydrochloride ..... X gms  
Sodium salicylate ..... Y gms  
Water ..... QS
  - (ii) Potassium chlorate ..... X gms  
Syrup of ferric iodide ..... Y gms  
Water..... QS
  - (iii) Menthol → 5 gms  
Camphor → 5 gms  
Ammonium chloride → 30 gms  
Light magnesium carbonate → 60 gms

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## FACULTY OF PHARMACY

B. Pharmacy II – Semester (CBCS) (Suppl.) Examination, January 2018

Subject : Basic Computer Applications – II

Time : 3 hours

Max. Marks : 70

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

- 1 a) Explain the concept of preprocessors in C. 7  
 b) Discuss about structure of C program. 7  
**OR**  
 c) Explain the importance of 'C' language. 7  
 d) Explain the data types in 'C' language. 7
- 2 a) Discuss about switch case with example. 7  
 b) Explain difference between break and continue statements. 7  
**OR**  
 c) Explain different types of decision making statements with example programs. 14
- 3 a) Explain the advantages and disadvantages of DBMS. 7  
 b) Discuss Database Development Life Cycle (DDLC). 7  
**OR**  
 c) Explain the following :  
 i) Hierarchical data model 7  
 ii) Network data model 7
- 4 a) Compare access Vs sql server 7  
 b) Explain difference between GRANT and REVOKE 7  
**OR**  
 c) Create EMP table and insert the 10 employees values into table with ID, Name, Address, Salary where ID is primary key, and print the result. 14
- 5 a) Explain the process of data mining. 7  
 b) Discuss about big data. 7  
**OR**  
 c) Explain chemical database design and their tools. 14

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## FACULTY OF PHARMACY

B. Pharmacy II – Semester (CBCS) (Supplementary) Examination,  
January 2018

Subject : Human Anatomy and Physiology - II

Time : 3 hours

Max. Marks : 70

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

- 1 a) Define alveolar ventilation and explain the different pulmonary volumes and capacities. 2+8  
b) Describe the structure of larynx. 4
- OR**
- c) Explain how control of respiration occurs. 8  
d) Describe how the blood transports oxygen and carbon dioxide. 6
- 2 a) Describe the structures and functions of the brain stem. 9  
b) What is reflex arc? Explain the components of a reflex arc. 5
- OR**
- c) Explain the different types of cranial nerves in detail. 10  
d) Write about structure and functions of neuron. 4
- 3 a) Explain the process of digestion and absorption in small intestine. 9  
b) Write about the different phases of digestion. 5
- OR**
- c) Discuss the histology of small intestine with a neat labeled diagram. 5+3  
d) Explain the structure and functions of liver. 6
- 4 a) Describe the mechanisms of hormone actions. 8  
b) Explain the structure and functions of parathyroid gland. 6
- OR**
- c) Explain the biosynthesis and actions of thyroid hormones. 10  
d) Write about the role of posterior pituitary hormones. 4
- 5 a) Write in detail about the physiology of urine formation. 10  
b) Draw a neat labeled diagram of microscopic structure of kidney. 4
- OR**
- c) Explain the process of oogenesis. 8  
d) Write short notes on in-vitro fertilization. 6

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