

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.

FACULTY OF PHARMACY

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

Subject: Communicative English

Time: 2 Hours

Max. Marks: 70

PART – A

Note: Answer any Four question

(4 x 5 = 20Marks)

1. (a) Write a note on verbal and Non-verbal communication.
(b) How to make the communication effective by overcoming the barriers of communication.
2. (a) Explain how to make an effective speech.
(b) What is the role of Body language in oral communication?
3. (a) Explain the basic principles we need to remember while writing a paragraph.
(b) How to tender apology. Discuss with the help of examples.
4. (a) As a principal, explain how to draft a letter of notice to the student regarding 'prevention of ragging' in the college.
(b) As a librarian of your organization, write a letter of claim compensation for 20 books which arrived in damaged condition from a publisher.

PART – B

Note: Answer any Two question

(2 x 10 = 20Marks)

5. Give the synonyms for the following:
(a) Anguish (b) Sulky (c) Tantrum (d) Astounding (e) Resentful
6. Give the antonyms for the following:
(a) Induce (b) Enormous (c) Timid (d) Prosperity (e) Destruction
7. One word substitutes:
(a) Idealist (b) Asylum (c) Nostalgia (d) Sojourner (e) Envision
8. Rewrite sentences as directed.
(a) The trial_____ (go) on for two years.
(use appropriate form of verb)
(b) The boys said to him, "Please bring the files".
(change in to indirect speech)
(c) It is_____unfortunate incident.
(insert appropriate article)

- (d) I was amazed _____ his dance performance.
(use appropriate preposition)
- (e) They paid him handsome salary.
(Change into passive voice)

PART - C

Note: Answer any Five question

(5 x 6 = 30Marks)

9. (a) Why do some boys turn their irritation towards their mothers.
(b) Why does school failure occur according to Benjamin Spock?
10. (a) How can one not be touched by sin, according to Swami Vivekananda?
(b) What was the teaching of Swami Vivekananda regarding work?
11. (a) What did Andrew Carnegie learn from his parents?
(b) Carnegie had strong views about the best way to use his money. What were they?
12. (a) What are the defects of our own civilization?
(b) 'Machine', C.E.M. Joad Points out, 'are aids to civilization' and not proof of civilization. Elucidate.
13. (a) Write in your own words about the role of a teacher in a class room.
(b) Discuss the different types of reports in detail.

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.

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^{1/2} = 70 Marks)

1. a) Explain in detail about the transport of O₂ and CO₂ in blood with help of a diagram.
b) Discuss the factors affecting the transport of O₂ 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.

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 O₂ and CO₂ 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

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 So₄ – 2 gm

Hydrochloric acid – 5 ml

KI – 1 gm

Water upto – 50 ml

ST. PAULS COLLEGE OF PHARMACY TURKAYAMJAL

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 Sp¹, Sp², Sp³ 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 product 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 dieres. 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 SN¹ 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 aryldozonium 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.

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.

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 injection
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 | | |

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 | 6 |
| | a) Inductive effect | |
| | 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 relative 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. | |
| | 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) Defandant 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.

ST. PAULS COLLEGE OF PHARMACY TURKAYAMJAL

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)

-2-

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.

*

ST. PAULS COLLEGE OF PHARMACY TURKAYAMJAL

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.

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ST. PAULS COLLEGE OF PHARMACY TUKAYAMJAL

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.

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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'c 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
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)

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)

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
- I want to meet you tomorrow. (A polite question)
 - It is _____ unfortunate incident. (insert appropriate articles)
 - I am sorry _____ my misconduct. (insert appropriate preposition)
 - They said to him, "we will hand over our work tomorrow. (change into indirect speech).
 - The robot does all the work. (change to passive voice).

- 2 -

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.

ST. PAULS COLLEGE OF PHARMACY TURKAYAMJAL

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 → 60gms

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 (DDL). 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

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 |
