

FACULTY OF PHARMACY

B. Pharmacy II – Semester (CBCS) (Main) Examination, July 2017

Subject : Basic Computer Applications – II

Time : 3 hours

Max. Marks : 70

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

- | | | |
|---|---|----|
| 1 | a) What are the input and output functions in C language? | 5 |
| | b) Define the terms key words, identifiers, variables. | 9 |
| | OR | |
| | c) Explain ASCII conversation in C language. | 7 |
| | d) Write header files and free-defined functions in C language. | 7 |
| 2 | a) Write the special operators and uniry operators. | 7 |
| | b) Explain the conditional statement in C language. | 7 |
| | OR | |
| | c) Difference between while loop and do-while loop. | 7 |
| | d) Write a program to find sum of First-n natural numbers. | 7 |
| 3 | a) Define the terms data, information, records and file. | 9 |
| | b) What are characteristics of data base management system? | 5 |
| | OR | |
| | c) Explain relational data base with E-R model diagrams. | 7 |
| | d) Explain the advantages of database management system. | 7 |
| 4 | a) Explain specifying constraints in SQL. | 7 |
| | b) Write DCL, TCL commands in SQL. | 7 |
| | OR | |
| | c) Write insert, delete, update, select, rename, alter, modify commands in SQL. | 14 |
| 5 | a) What are the importance of computer in pharmaceutical science? | 7 |
| | b) Explain chemsketch or chemdraw. | 7 |
| | OR | |
| | c) Define data mining and explain ETL. | 7 |
| | d) Explain data analysis, heterogeneous storage (Google drive). | 7 |

FACULTY OF PHARMACY
B. Pharmacy II-Semester (CBCS) (Main) Examination, July 2017

Subject : Pharmaceutical Organic Chemistry

Time : 3 Hours

Max. Marks: 70



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

- 1 (a) (i) Discuss atomic and molecular orbitals. 4
 (ii) Explain dipole moment with examples. 4
 (iii) Write different types of covalent bonds. 6
 OR
 (b) What is Isomerism? Explain with suitable examples. 5
 (c) Explain energy diagrams of reactants and products. 9
- 2 (a) Write the mechanism of free radical reactions. 8
 (b) Write any three methods of synthesis of Alkanes. 6
 OR
 (c) Write any three general methods of preparation of alkynes. 6
 (d) Discuss the importance of Bayer's strain theory. 8
- 3 (a) Explain the mechanism of :
 (i) SN^1 and SN^2 reactions. 5
 (ii) E^1 and E^2 reactions. 5
 (b) Write a note on oxidation of Alcohols. 4
 OR
 (c) Write in brief about the preparation and reactions of Ethers. 10
 (d) Write note on Walden inversion. 4
- 4 (a) Write the reaction and mechanism of following: (4x3.5)
 (i) Aldol condensation (ii) Cannizzaro reaction
 (iii) Wittig reaction (iv) Reformatsky reaction
 OR
 (b) Write any two methods each to synthesis Aldehydes and Ketones. 7
 (c) How do you differentiate between primary, secondary and tertiary amines with chemical reactions? 7
- 5 (a) Write the Synthetic applications of Acetoacetic ester and malonic ester. 8
 (b) Write any two methods for synthesis of Carboxylic acids. 6
 OR
 (c) Explain in detail the acidity of carboxylic acid with examples. 7
 (d) Outline the methods of preparation of acid chlorides and amides. 7

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B. Pharmacy II – Semester (CBCS) (Main) Examination, July 2017

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 forms 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 aromatic waters. 4
 OR
 d) Classify emulsifying agents with examples. 6
 e) Distinguish the following :
 i) Flocculated and deflocculated suspensions
 ii) Creaming and Cracking
 iii) Lotions and Liniments 3+3+2
- 2 a) Mention the various types of tablet dosage forms. Write the method of direct compression and slugging process. 7
 b) Differentiate hard gelatin and soft gelatin capsules. Write the processing of soft gelatin capsules. 7
 OR
 c) Classify powders and write the general method of preparation and marketed products of dusting powders and effervescent granules. 10
 d) Write a note on lozenges. 4
- 3 a) Write about different types of ointment bases with their advantages and limitations. 10
 b) Write the principle and procedure in the preparation of cold cream. 4
 OR
 c) Discuss about various jelling agents used for the preparation of jellies. 7
 d) Define Displacement value. Calculate the displacement value of zinc oxide if 12 theobroma oil suppositories containing 40% zinc oxide weighing 17.6 grams. Assume that the suppositories are made in a 1 gm mould. 7
- 4 a) Distinguish the following :
 i) Dry heat and moist heat sterilization
 ii) Tyndallization and Pasteurization
 iii) Vials and ampoules
 iv) Water for injection and distilled water 4+4+4+2
 OR
 b) Write the composition and preparation of normal saline and dextrose normal saline solution. 9
 c) Write a note on nasal drops. 5
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FACULTY OF PHARMACY

B. Pharmacy II – Semester (CBCS) (Main) Examination, July 2017

Subject : Human Anatomy and Physiology - II

Time : 3 hours

Max. Marks : 70

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

- 1 a) Explain the physiology of respiration. 10
 b) Define and explain different types of lung volumes. 4
 OR
 c) Explain the structure of larynx with a neat labeled diagram and add a note on voice production. 6+3
 d) Describe how the blood transports oxygen and carbon dioxide? 5
- 2 a) Describe the structures and functions of the brain. 10
 b) Explain the structure of neuron. 4
 OR
 c) What are cranial nerves? Explain the different types of cranial nerves in detail. 14
- 3 a) Define digestion and explain the process of chemical digestion. 9
 b) Write structure and functions of salivary gland and add a note on composition of saliva. 5
 OR
 c) Explain different phases of digestion. 8
 d) Write about the histology of stomach with a neat labeled diagram. 6
- 4 a) Explain the actions of the hormones secreted by the anterior and posterior lobes of the pituitary gland. 10+4
 OR
 b) Name the hormones secreted from the adrenal cortex and explain their functions. 8
 c) Explain in detail about the role of pancreatic hormones. 6
- 5 a) Explain the gross and microscopic structure of the kidney with a neat labeled diagram. 8
 b) What is GFR? Explain various factors affecting GFR. 6
 OR
 c) Write about the process of spermatogenesis and add a note on sperm structure. 6+3
 d) Write short notes on In-vitro fertilization. 5



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B. Pharmacy II – Semester (CBCS) (Main) Examination, July 2017

Subject : Communicative English

Time : 3 hours

Max. Marks : 70

PART – A (4 x 5 = 20 Marks)

- 1 a) Write a short note on :
i) Group communication
ii) Verbal communication

OR

- b) State certain obstacles which come on the way of smooth flow of communication process.

- 2 a) What are the different ways to thank and to tender apology?

OR

- b) Summarize the attributes of spoken and written English.

- 3 a) Explain the basic principles we need to remember while writing a paragraph.

OR

- b) Define notice and describe its importance with the help of a model notice.

- 4 a) Differentiate between listening and hearing with good examples.

OR

- b) "It is not always possible for all people to speak on a given topic or subject-matter without preparation". Justify the statement.

PART – B (4 x 5 = 20 Marks)

- 1 Give the synonym for the following :

- | | | |
|--------------|---------------|-------------|
| a) erudition | b) liberation | c) vigorous |
| d) ablaze | e) instinct | |

- 2 Give the antonym for the following :

- | | | |
|-------------|------------|-----------|
| a) scorn | b) prevail | c) ablest |
| d) persuade | e) revive | |

- 3 Explain the following one word substitutes in one or two sentences.

- | | | |
|---------------|--------------|----------|
| a) drudge | b) oases | c) endow |
| d) liberation | e) nostalgia | |

- 4 Rewrite the sentences as directed

- R.K.Narayan has written many novels. (change into passive voice)
- He did not speak _____ word in self-defence. (insert article)
- The boy said, 'I am doing my homework'. (change into indirect speech)
- I _____ (hear) about him before I went to England. (Use the correct form of the verb).

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