

**FACULTY OF PHARMACY****B. Pharmacy I-Year (Non-CBCS)(Backlog) Examination, December 2018****Subject : Anatomy, Physiology and Health Education****Time : 3 Hours****Max. Marks: 70*****Note: Answer all questions. All questions carry equal marks.***

- 1 (a) (i) Write about various types of transport mechanisms across the plasma membranes. (8)  
(ii) Explain the properties and functions of any two connective tissues. (6)  
**OR**
- (b) (i) Enumerate types of Epithelial tissue and explain in detail any three of them. (8)  
(ii) Explain the structure and functions of bone. (6)
- 2 (a) (i) Explain anatomy and physiology of parasympathetic nervous system. (8)  
(ii) Define reflex arc. Explain various components of reflex arc. (6)  
**OR**
- (b) (i) Define clot. Explain intrinsic, extrinsic and common pathways of blood clotting. Add a note on role of Vitamin K in the process of blood clotting. (8)  
(ii) Explain the structure and functions of RBC. (6)
- 3 (a) (i) Define Vital capacity. Discuss about Neuronal regulation of respiration. (8)  
(ii) Explain about phases of secretions of gastric juice with a neat diagram. (6)  
**OR**
- (b) (i) Discuss about formation, storage, release, actions of thyroid hormones. (8)  
(ii) Write about the disorders of pituitary gland. (6)
- 4 (a) (i) Explain the physiology of urine formation. (8)  
(ii) Write about structure and functions of kidney. (6)  
**OR**
- (b) (i) Explain the anatomy of Ear with a neat labeled diagram. (8)  
(ii) Write about physiology of smell. (6)
- 5 (a) (i) Define Inflammation. Explain the cellular changes observed during acute inflammation. (8)  
(ii) Write about oral contraceptives. (6)  
**OR**
- (b) (i) Define and classify Neoplasm. (8)  
(ii) Write a note on Hemorrhage and thrombosis (6)

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**FACULTY OF PHARMACY****B. Pharmacy I-Year (Non-CBCS) (Backlog) Examination, December 2018****Subject : Basic Computer Applications****Time : 3 Hours****Max. Marks: 70****Note: Answer all questions. All questions carry equal marks.**

- 1 (a) What is computer? Draw block diagram of computer and explain its components. (7)  
(b) Explain different types of storage devices used for computers. (7)  
**OR**  
(c) Write a note on computer virus. How computer virus can be prevented? (7)  
(d) What is operating system? Explain briefly about the importance of operating system and Windows OS? (7)
- 2 (a) Write Input-Output statements used in C-Language. (7)  
(b) Write Operators and Expression in C-Language. (7)  
**OR**  
(c) Explain statements with examples (i) If-Else (ii) For (iii) Goto
- 3 (a) Write features of MS-Word. (6)  
(b) Write about : (i) Spelling and Grammar (ii) Mail merge in MS-Word (8)  
**OR**  
(c) Explain (i) Features of MS-Excel (ii) Mathematical and statistical functions (iii) Data types and formulas in MS-Excel
- 4 (a) Write different views available in MS-Power point. (6)  
(b) Explain Power point presentation preparation in MS-Power point by applying background, slide design and transition and animations. (8)  
**OR**  
(c) What is the concept of Database? Explain briefly about database creation in MS-Access. (7)  
(d) Write a note on : (i) Sorting and filtering (ii) Importing and Exporting (7)
- 5 (a) Explain :  
(i) Structure and Organization of the WWW  
(ii) Pharmaceutical resources in WWW Internet  
(iii) HTML  
(iv) E-Mail  
**OR**  
(b) Write about SQL commands with examples.  
(c) Write chemical database design and their tools.

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## FACULTY OF PHARMACY

B. Pharmacy I-Year (Non-CBCS)(Backlog) Examination, December 2018

Subject : Mathematics

Time : 3 Hours

Max. Marks: 70

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

1 (a) (i) Show that  $\sin(45^\circ + A) \sin(45^\circ - A) = \frac{1}{2} \cos 2A$ .

(ii) If  $A + B + C = 180^\circ$  prove that  $\sin \frac{A}{2} + \cos \left( \frac{B-C}{2} \right) = 2 \cos \frac{B}{2} \cos \frac{C}{2}$ .

OR

(b) (i) If  $\log_a abc = x + 1$ ,  $\log_b abc = y + 1$  and  $\log_c abc = z + 1$  show that  $xyz = x + y + z$ .

(ii) Prove that  $\tan 9^\circ - \tan 27^\circ - \tan 63^\circ + \tan 81^\circ = 4$ .

2 (a) (i) Find the derivative of  $f(x, y) = x^2 + y^2 + x$ , using first principal.

(ii) Discuss the continuity of the function

$$f(x, y) = \begin{cases} \frac{x^2 + y^2}{xy}, & (x, y) \neq (0, 0) \\ 0, & (x, y) = (0, 0) \end{cases} \quad \text{at } (0, 0)$$

OR

(b) (i) Find the maximum and minimum values of the function  $f(x, y) = 4x^2 + 9y^2 - 8x - 12y + 4$ .

(ii) If  $u = \sin^{-1} \left( \frac{x^2 + y^2}{x + y} \right)$  prove that  $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = \tan u$ .

3 (a) (i) Evaluate  $\int x\sqrt{x} dx$ .

(ii) Evaluate  $\int \frac{x^8}{x^6 + 1} dx$

OR

(b) (i) Evaluate  $\int \frac{3x + 4}{x^2 + 2x + 3} dx$

(ii) Evaluate  $\int \frac{1}{2 + 3 \sin x} dx$

4 (a) (i) If  $A = \begin{bmatrix} 3 & -5 \\ -4 & 2 \end{bmatrix}$  prove that  $A^2 - 5A = 14I$ , where  $I$  is the unit matrix of second order.

(ii) Solve the equation  $x + 3y + 6z = 2$ ,  $3x - y + 4z = 9$ ,  $x - 4y + 2z = 7$  by matrix Inversion method.

OR

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(b) (i) Find the rank of the matrix  $A = \begin{bmatrix} 3 & -1 & 2 \\ -6 & 2 & 4 \\ -3 & 1 & 2 \end{bmatrix}$

(ii) If  $A = \begin{bmatrix} 1 & 2 \\ -2 & 3 \end{bmatrix}$ ,  $B = \begin{bmatrix} 2 & 1 \\ 2 & 3 \end{bmatrix}$  and  $C = \begin{bmatrix} -3 & 1 \\ 2 & 0 \end{bmatrix}$  verify that

$$A(B+C) = AB + AC.$$

- 5 (a) (i) Explain Linear and non-Linear graphs with examples.  
(ii) Find the equation of the circle passing through the points (1, 0), (2, 1) (5, 3).

**OR**

- (b) (i) What are the basic mathematical principles are used in biological Testing.  
(ii) Find the equation of the Line passing through (-3, -2) with slope -2/3.

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**FACULTY OF PHARMACY**

**B. Pharmacy I-Year (Non-CBCS)(Backlog) Examination, December 2018**

**Subject : Biology**

**Time : 3 Hours**

**Max. Marks: 70**

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

- 1 (a) Write an essay on Meiosis.  
(b) Discuss general characters of Fungi.  
**OR**  
(c) Give the morphological details of a Fruit.  
(d) Describe the plant cell.
- 2 (a) List out the medicinal plants from Rubiaceae and give their importance.  
(b) Give the medicinal importance of Solanaceae family.  
**OR**  
(c) Mention the medicinal value of Leguminosae.  
(d) Describe the inflorescence of Umbelliferae.
- 3 (a) What is Mutation? Explain in detail.  
(b) Discuss polyploidy and its advantages in plant science.  
**OR**  
(c) What are the differences between Absorption and Transpiration?  
(d) Describe Respiration in detail.
- 4 (a) Mention the differences between Animal and plant cell.  
(b) Describe the Histology of Liver.  
**OR**  
(c) Draw a neat labeled diagram of Frog Alimentary canal.  
(d) Why Ovary is known as Endocrine gland?
- 5 (a) Describe in detail "Tapeworm" with the help of a diagram.  
(b) Give the details of life history of Housefly.  
**OR**  
(c) Write an essay on Trypanosomiasis.  
(d) Define the word vector and give examples.

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## FACULTY OF PHARMACY

## B. Pharmacy I–Year (Non-CBCS) (Backlog) Examination, December 2018

## Subject : Pharmaceutical Inorganic Chemistry

Time: 3 Hours

Max. Marks: 70

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

1. (a) i) Explain the principle, procedure and the role of reagents involved in the limit test for Iron and chlorides 5+5  
 ii) Write two confirmations tests for sodium and bicarbonate ions 4  
 (OR)
- (b) i) Explain the classification of Inorganic pharmaceuticals based on use with examples 9  
 ii) Mention the principle and procedure involved in the limit test for heavy metals 5
2. (a) i) Define and classify acidifiers or acidifying agents 4  
 ii) Mention the method of preparation, properties, assay and uses of sodium chloride and potassium citrate 5+5  
 (OR)
- (b) i) What are adsorbents? Write a note on Heavy kaolin 6  
 ii) Mention the preparation, properties, limit tests & uses of sodium phosphate and magnesium trisilicate 4+4
3. (a) i) What are suspending agents? Write a note on colloidal silica and Activated charcoal 9  
 ii) Mention the method of preparation and uses of Aluminum phosphate and sodium metabisulphite 5  
 (OR)
- (b) i) Explain the method of preparation, properties, and uses of 5+4+5  
 ii) Ferrous Fumarate (ii) Magnesium Stearate (iii) Zinc Chloride
4. (a) i) Define and classify expectorants with examples 5  
 ii) Write the preparation, assay and uses of Zinc Sulphate and Potassium Iodide 4+5  
 (OR)
- (b) Mention properties and uses of i) Sodium nitrite ii) Nitrous oxide 3+3+4+4  
 iii) Potassium antimony tartarate iv) Ammonium chloride
5. (a) Mention properties and uses of i) Ammoniated mercury ii) Calcium carbonate  
 iii) Potassium perchlorate iv) Cisplatin 3+4+4+3  
 (OR)
- (b) i) What are Astringents? Write the method of Preparation and uses of copper sulphate and stannous fluoride  
 ii) Mention, Preparation, assay and uses of Boric acid and Hydrogen peroxide

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**FACULTY OF PHARMACY****B. Pharmacy I-Year (Non-CBCS) (Backlog) Examination, December 2018****Subject : Pharmaceutics – I  
(General and Dispensing Pharmacy)****Time : 3 Hours****Max. Marks: 70****Note: Answer all questions. All questions carry equal marks.**

- 1 (a) Write about Registration procedure for pharmacists. (7)  
 (b) What is Pharmacopoeia? Write a short note on I.P. (7)
- OR**
- (c) Calculate how much of 95% alcohol is required to make 700 ml of 20% alcohol. (4)  
 (d) Convert 40° UP and 60° OP to percentage V/V of alcohol. (5)  
 (e) Calculate the dose for a child of 6 years, when the adult dose of drug is 200 mg. (5)
- 2 (a) Write about general dispensing procedures. (6)  
 (b) Write about commonly used colours, flavours and sweeteners in dispensing of prescription. (8)
- OR**
- (c) Define dosage form. Write advantage and disadvantages of dosage form. (7)  
 (d) Write a brief note on : (7)  
 (i) Prescription containers (ii) Labeling and packing of a dosage form
- 3 (a) Write general methods of preparation, additives used in preparation and uses of (6)  
 (i) Suspensions (ii) Emulsion (iii) Lotions
- OR**
- (b) Describe different methods used to prepare aromatic waters. (7)  
 (c) Write difference between (i) eye drops Vs Ear drops (ii) Lotions Vs Liniments
- 4 (a) Discuss about different bases used in preparation of ointments. (8)  
 (b) Write a note on (i) Effervescent granules (ii) Suppositories
- OR**
- (c) What is Incompatibility? Explain various types of incompatibilities by giving suitable examples. (10)  
 (d) Identify the type of incompatibility and rectify it and write rectification procedure for preparation of suitable dosage form (4)  
 Rx Arachis oil – 10 ml, Purified water – up to 100 ml
- 5 (a) Explain double maceration and triple maceration processes. (7)  
 (b) Explain the soxhlet extraction method with neat diagram. (7)
- OR**
- (c) Discuss about safety measures and precautions while handling of medicinal gases. (7)  
 (d) Write about therapeutic and diagnostic applications of radio pharmaceuticals. (7)

## FACULTY OF PHARMACY

**B. Pharmacy I-Year (Backlog) Examination, April / May 2018**

**Subject: Pharmaceutics-I (General and Dispensing Pharmacy)**

**Time: 3 Hours**

**Max. Marks: 70**

**Note: Answer All Questions. All Questions carry Equal Marks.**

- 1) a) Discuss in detail about pharmacy as career for Pharmacy graduates. 7M  
 b) Write a brief note on Evolution of Pharmacy. 7M  
 OR  
 c) Calculate the dose for a child of 5 years, when the adult dose of drug is 400 mg. 4M  
 d) Calculate % v/v alcohol in 30° O.P. and 40 % U.P solution. Percentage v/v of alcohol in 30° O.P. and 40 U.P. 6M  
 e) Prepare 600 ml of 35 % alcohol from 95 % alcohol. 4M
- 2) a) Define Prescription. Explain various parts of prescription with suitable example. 8M  
 b) Write a note on general dispensing procedures for different dosage forms. 6M  
 OR  
 c) Write a brief note on classification, advantages and limitations of dosage forms. 6M  
 d) Write a note on i) Containers and closures ii) Colors, flavors and sweeteners. 8M
- 3) a) Write principle, procedure and labeling of following preparations  
 i) Aromatic waters ii) Mixtures iii) Suspensions iv) Gargles  
 OR  
 b) What are Emulsions? Write the different methods of preparation of emulsions. Write a brief note on Emulsifying agents. 5M  
 c) Differentiate between i) Lotions and Liniments ii) Emulsions and Suspensions. 6M  
 d) Write a note on preparation of simple syrup. 3M
- 4) a) What are suppositories? Write about different suppository bases and different methods of preparation of suppositories. 8M  
 b) Write a short note on i) Effervescent granules ii) Cold cream iii) Lozenges 6M  
 OR  
 c) Define Incompatibility? What are the different types of incompatibilities? Write about therapeutic incompatibility with examples? 9M  
 d) Identify the type of incompatibility in the following prescription and add a note on how to overcome the incompatibility.  
 R<sub>x</sub> Potassium chlorate– 0.6 g, Tannic acid– 0.3 g, Sucrose– 0.3 g Water - up to 20.00 g Make a powder. 5M
- 5) a) What is the process of extraction? Describe the Soxhlet extraction process for preparation of tinctures with neat labeled diagram. 8M  
 b) What are tinctures and extracts? Write some official tinctures as per I.P. 6M  
 OR  
 c) Write the preparation and diagnostic uses of radio pharmaceuticals. 7M  
 d) Write the containers, fittings, handling and storage of medicinal gases. 7M

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## FACULTY OF PHARMACY

**B. Pharmacy I –Year (Suppl.) Examination, April 2018**

**Subject : Anatomy, Physiology and Health Education**

**Time: 3 Hours**

**Max. Marks: 70**

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

1. (a) Define tissue classify various types of epithelial tissues and explain any two with a neat labeled diagram 8  
 (b) Explain about facilitated diffusion and active transport 6  
 (OR)  
 (c) Write a note on muscle tissue 8  
 (d) Explain the following bones with a neat diagram 6  
 (i) Sternum (ii) Scapula
  
2. (a) Explain the physiology of nerve impulse 8  
 (b) Define reflex. Explain various components of reflex arc. 6  
 (OR)  
 (c) Define Blood pressure. Describe how blood pressure is regulated 14
  
3. (a) Write a note on physiology of respiration 8  
 (b) Define the terms (i) anoxia (ii) hypoxia (iii) dyspnoea. 6  
 (OR)  
 (c) Explain Mechanisms of hormone secretion 8  
 (d) Discuss the disorders of Pituitary gland. 6
  
4. (a) Explain how urine is formed 8  
 (b) Write a note on physiology of smell 6  
 (OR)  
 (c) Discuss in detail about the anatomy of eye 6  
 (d) Write about structure and functions of taste buds
  
5. (a) Describe signs, symptoms and different stages of inflammation 8  
 (b) Write about various temporary, methods used is family planning. 6  
 (OR)  
 (c) Explain the following (i) edema (ii) Embolisms 6  
 (d) Explain neoplasm and hemorrhage

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## FACULTY OF PHARMACY

**B. Pharmacy I-Year (Suppl.) Examination, May 2018**

**Subject: Basic Computer Applications**

**Time: 3 Hours**

**Max. Marks: 70**

**Note:** Answer **All** Questions. All Questions carry **Equal Marks**.

1. a) Write characteristics of computers 7  
 b) Write about input – output devices used for computers with examples 7  

**OR**

 c) Write about various types of memory chips used for computers 7  
 d) What is computer virus? Explain how we can prevent the systems from getting affecting by viruses 7
  
- 2) a) Explain i) Operators ii) Expressions iii) Input statements iv) Arrays in C-Language. 7  

**OR**

 b) Explain Loop statements in C-Language with examples. 7
  
- 3) a) Explain i) Formatting text ii) Tables iii) Mail merge iv) Macro in MS-Word. 7  

**OR**

 b) Explain i) Spread sheets ii) Mathematical and statistical tools  
 iii) Charts and Graphs in MS – Excel. 7
  
- 4) a) Explain i) Wizards and templates ii) Custom animations iii) Different views available in MS-Power point. 7  

**OR**

 b) Explain about i) Screen layouts ii) Creating tables & Table relationships  
 iii) Queries iv) Forms in MS-Access. 7
  
- 5) a) Write a note on i) Structure and organization of WWW and its features  
 ii) Search engines.  
 iii) Browsers  
 iv) Internet 7  

**OR**

 b) Write the features of SQL. Explain the SQL commands. 7  
 c) Write a note on chemical database design and their tools. 7

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## FACULTY OF PHARMACY

## B. Pharmacy I-Year (Suppl.) Examination, May 2018

## Subject: Mathematics

Time: 3 Hours

Max. Marks: 70

**Note:** Answer All Questions. All Questions carry Equal Marks.

- 1) a) i) If  $2 \sin \theta - \cos \theta = 2$ , The value of  $\sin \theta + 2 \cos \theta$ .  
 ii) If  $A+B+C = 180^\circ$  prove that  $\sin A + \sin (b-c) = 2 \sin B \sin C$ .

OR

- b) i) If  $\log_a b = x+1$ ,  $\log_b a = y+1$  and  $\log_a abc = Z+1$  Then prove that

$$\frac{1}{x+1} + \frac{1}{y+1} + \frac{1}{z+1} = 1$$

- ii) If  $0 < \alpha$ ,  $\beta < \pi$   $\tan \alpha = \frac{1}{3}$  and  $\tan \beta = \frac{1}{7}$  Then prove that  $2\alpha + \beta = \frac{\pi}{4}$ .

- 2) a) i) Find the derivative of  $f(x, y) = \sin (2x + 3y)$  using first principal.

- ii) Discuss the continuity of the function  $f(x, y) = \begin{cases} \frac{(x-y)^2}{x^2+y^2}, & (x, y) \neq (0,0) \\ 0, & (x, y) = (0,0) \end{cases}$  at  $(0,0)$

OR

- b) i) Find the maximum and minimum Values of the function  $f(x,y) = 2x^4 - 2y^2 - x^4 + y^4$

- ii) If  $u = \tan^{-1} \left( \frac{x^2+y^2}{x-y} \right)$  prove that  $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = \frac{1}{2} \sin 2u$ .

- 3) a) i) Evaluate  $\int \frac{x^2+2}{x^2+1} dx$

- ii) Evaluate  $\int e^{\log(1+\tan^2 x)} dx$

OR

- b) i) Evaluate  $\int \frac{2x-5}{3x^2+4x+5} dx$

- ii) Evaluate  $\int \frac{1}{3+2\cos x} dx$

- 4) a) i) If  $A = \begin{bmatrix} 3 & 2 \\ 2 & 3 \end{bmatrix}$  Find The Value of  $A^2 - 6A + 8I$ , where I is the unit matrix of second order.

- ii) Solve The equation  $x+y+z=4$ ,  $x-y+z=0$ ,  $2x+y+z=5$  by matrix inversion method.

OR

-2-

b) i) Find The rank of the matrix  $A = \begin{bmatrix} 1 & 4 & 5 \\ 2 & 6 & 8 \\ 3 & 7 & 2 \end{bmatrix}$

ii) If  $A = \begin{bmatrix} 1 & 2 \\ -2 & 3 \end{bmatrix}$ ,  $B = \begin{bmatrix} 2 & 1 \\ 2 & 3 \end{bmatrix}$  and  $C = \begin{bmatrix} -3 & 1 \\ 2 & 0 \end{bmatrix}$  Verify that  $(AB)C = A(BC)$

5 a) i) Explain linear and non – linear graphs with examples

ii) Find The equation of the circle passing through the points (1,1), (2,-1), (3,2).

**OR**

b) i) What are the basic mathematical principles used in Biological Testing.

ii) Find the equation of the line, passing through (2,-1) with slope -2.

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## FACULTY OF PHARMACY

B. Pharmacy I-Year (Suppl.) Examination, May 2018

Subject: Biology

Time: 3 Hours

Max. Marks: 70

**Note:** Answer All Questions. All Questions carry Equal Marks.

- 1) a) Write an Essay on Meiosis  
b) Discuss general characters of Fungi.  
**OR**  
c) Give the morphological details of Fruit  
d) Describe the Stems.
- 2) a) List out the medicinal plants from apocynacane and umbel liferae and give their importance.  
**OR**  
b) Mention the medicinal value and inflorescence of Legrminosae
- 3) a) Discuss hybridization and its advantages in plat science  
b) Describe about Mutation in the Origin of new species?  
**OR**  
c) What are the differences between Absorption and Transpiration.  
d) Describe photosynthesis in detail.
- 4) a) Describe the Histology of kidney.  
b) Mention the differences between Animal and plant cell  
**OR**  
c) Draw a neat labeled diagram of frog alimentary system.
- 5) a) Describe in detail 'Tapeworm' with the help of a diagram.  
b) Give the details of life history of housefly.  
**OR**  
c) Write an essay on Leishmaniasis  
d) Define the word vector and give examples.

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**FACULTY OF PHARMACY**  
**B. Pharmacy I-Year (Suppl.) Examination, April 2018**

**Subject : Pharmaceutical Inorganic Chemistry**

**Time : 3 Hours**

**Max. Marks: 70**

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

- 1 (a) (i) Explain the principle and procedure involved in the limit test for Arsenic with a neat labeled diagram. (8)
- (ii) Give two characteristic tests for any one cation and anion with chemical reactions. (6)
- OR**
- (b) (i) Explain in detail the sources of impurities in pharmaceuticals. (10)
- (ii) Mention the principle and procedure involved in the limit test for Iron. (4)
- 2 (a) (i) What are electrolyte replenishers? Write the method of preparation, assay and uses of sodium chloride and calcium gluconate. (1+4+4)
- (ii) Write a note on hemodialysis fluids. (5)
- OR**
- (b) (i) Mention the method of preparation, assay and tests for purity of magnesium sulphate and aluminum hydroxide gel. (4+4)
- (ii) What are adsorbents? Write a note on Light Kaolin. (6)
- 3 (a) Mention the method of preparation, properties and uses of (5+4+5)
- (i) Ferrous sulphate (ii) Sodium sulphite
- (iii) Magnesium stearate
- OR**
- (b) (i) What are suspending agents? Write a note on Bentonite. (1+6)
- (ii) Explain about Desiccants. (7)
- 4 (a) (i) What are expectorants? Mention the preparation, properties and assay on ammonium chloride. (1+5)
- (ii) Write a brief note on Inhalants. (8)
- OR**
- (b) Give the preparation, properties, and uses of (4+5+5)
- (i) Sodium nitrite (ii) Potassium antimony tartarate
- (iii) Copper sulphate
- 5 (a) (i) What are dentifrices? Explain the preparation, properties and assay of calcium carbonate. (1+5)
- (ii) Write a note on Activated Dimethicone and zinc oxide. (4+4)
- OR**
- (b) Mention the preparation, properties and uses of (5+4+5)
- (i) Potassium permanganate
- (ii) Barium sulphate
- (iii) Potassium bromide