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**Sr. No. of Question Paper : 300**

**Roll No.....**

Name of the Course : **D. Pharm. Ist year (2014)**

Name of the Paper : **Pharmaceutics – I**

Duration : **3 Hours**

Maximum Marks : **80**

**Instructions for Candidates**

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Answer any **FIVE** questions.
3. **All** questions carry equal marks.
4. Different parts of a question should be answered in sequence.

1. Define Filtration and clarification. Elaborate on the various factors affecting filtration. Explain the working of different types of Filter Press. (2+6+8)
2. Enumerate various types of Tablets giving their specific uses. Discuss the additives used in tablets for their successful formulation and large scale production. (6+10)
3. Classify mills based on mechanism involved in reduction of particle size. Discuss the construction and working of a Hammer Mill. (4+12)
4. What are Galenical products ? Discuss continuous hot extraction for preparation of extract and tinctures. (4+12)
5. Write applications of sterilization and aseptic techniques in hospitals. With the help of a diagram explain the working and uses of an autoclave. (6+10)
6. (a) Explain with diagram the working of Fluidized Bed Dryer.  
(b) Discuss the principle involved in a steam distillation. (8+8)

*P.T.O.*

7. Write short notes on **any four** of the following :

- (a) Adjustment of isotonicity
- (b) Planetary Mixer
- (c) Difference between vaccines and sera
- (d) Types of Glass
- (e) Freeze Dryer

(4×4)

(200)

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Sr. No. of Question Paper : 301

Roll No.....

Name of the Course : **D. Pharm. – Ist year (2014)**

Name of the Paper : II – Pharmaceutical Chemistry – I

Duration : 2 Hours

Maximum Marks : 80

**Instructions for Candidates**

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **five** questions.
3. **All** questions carry equal marks.

1. (a) Write the importance of quality control of drugs. Discuss different methods of quality control. (8)
- (b) Explain different sources and types of impurities found in pharmaceuticals. (8)
2. (a) Discuss principle and theory involved in the limit test for arsenic. (8)
- (b) How are the limit tests performed for iron and sulphate. (8)
3. Write the method of preparation and uses of the following (any **four**) :
  - (a) Antimony potassium tartrate
  - (b) Calcium hydroxide
  - (c) Hydrogen peroxide
  - (d) Silver nitrate
  - (e) Iodine (4×4)

P.T.O.

4. Write assay procedure and uses of the following (any **four**) :
- (a) Copper sulphate
  - (b) Potassium permanganate
  - (c) Magnesium sulphate
  - (d) Ammonium chloride
  - (e) Calcium carbonate
- (4×4)
5. Discuss the tests for purity and uses of alum, calamine, bentonite and silicone. (16)
6. Write reactions and assay procedure of hydrochloric acid, zinc sulphate, boric acid and calcium gluconate. (16)
7. What are radiations and radioactive pharmaceuticals? Discuss different preparations of radio-isotopes with their uses. (16)
8. Write short note on the following (any **four**) :
- (a) Respiratory stimulants
  - (b) Radio-opaque contrast media
  - (c) Sodium chloride and its preparations
  - (d) Antacids
  - (e) Measurement of radioactivity
- (4×4)

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**Sr. No. of Question Paper : 302**

**Roll No.....**

Name of the Course : **D. Pharma – Ist Yr. (2014)**

Name of the Paper : **III Pharmacognosy**

Duration : **3 Hours**

Maximum Marks : **80**

**Instructions for Candidates**

1. Write your Roll No. on the top immediately on receipt of this question paper.
  2. Attempt any **five** questions.
  3. **All** questions carry equal marks.
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1. What are volatile oils ? Write the methods of isolation of volatile oils. How volatile oils differ from fixed oils. (2+8+6)
  2. What is evaluation of crude drugs ? Name different methods of evaluation. Give the details of morphological and chemical evaluation. (2+4+10)
  3. Describe microscopic characteristics with well labelled diagram of any **two** of the following :
    - (a) Datura leaf
    - (b) Ginger rhizome
    - (c) Cinnamon bark (8+8)
  4. Write the chemical tests of followings : (4×4)
    - (a) Senna
    - (b) Catechu
    - (c) Guar gum
    - (d) Gelatin

*P.T.O.*

5. Write the biological source, chemical constituents and uses of any **four** of the following :
- (a) Myrrh
  - (b) Vasaka
  - (c) Punarnava
  - (d) Rhubarb
  - (e) Nutmeg (4×4)
6. Write short notes on any **two** of the following :
- (a) Opium
  - (b) Neem
  - (c) Ephedra (8+8)
7. Write the complete pharmacognostic account of Rauwolfia. (16)
8. Write short notes on the following :
- (a) Garlic
  - (b) Wool
  - (c) Pectin
  - (d) Lemon grass oil (4×4)



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Sr. No. of Question Paper : 303

Roll No.....

Name of the Course : D. Pharma – Ist Yr. (2014)

Name of the Paper : IV Biochemistry and Clinical Pathology

Duration : 3 Hours

Maximum Marks : 80

**Instructions for Candidates**

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **any five** questions.
3. All questions carry equal marks.

1. Discuss briefly the chemistry involved in proteins. Write the different qualitative test for identification of proteins. (10+6)
2. What are carbohydrates? Differentiate between reducing sugar and non-reducing sugar on the basis of qualitative test. Write the significance of carbohydrate metabolism. (4+4+8)
3. Classify lipids with appropriate examples. Explain the role of lipid metabolism in health and diseases. (6+10)
4. What are enzymes? Write an account on enzyme action. Discuss therapeutic importance of enzymes. (4+6+6)
5. What are lymphocytes and platelets? Explain the role of lymphocytes and platelets in health and diseases. (4+12)
6. Discuss various minerals and their role in living system. Also explain the diseases associated to their deficiencies. (8+8)

P.T.O.

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7. Write a short notes on :

(a) Coenzymes

(b) Abnormal constituents of urine and their significance

(8+8)

(200)



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**Sr. No. of Question Paper : 304**

**Roll No.....**

Name of the Course : **D. Pharm. – Ist Year (2014)**

Name of the Paper : V Human Anatomy and Physiology

Duration : 3 Hours

Maximum Marks : 80

**Instructions for Candidates**

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **five** questions.
3. **All** questions carry equal marks.

1. (a) With the help of labelled diagrams describe the structure and functions of heart. (10)  
(b) Write a brief note on any two cardiovascular disorders. (6)
2. Enlist various parts of brain. Describe the structure and functions of cerebrum. (16)
3. Write notes on :
  - (a) Structure and functions of Leukocytes (8)
  - (b) Hormones of Pituitary and their functions (8)
4. Describe the location, structure and functions of liver. (16)
5. Write short notes on :
  - (a) Epithelial tissue
  - (b) Joint disorders

*P.T.O.*

- (c) Mitochondria
  - (d) Mechanical events of respiration (4×4)
6. Write notes on :
- (a) Gross structure of the kidneys (8)
  - (b) Various types of anaemia (8)
7. Write a detailed note on neuromuscular transmission. (16)
8. Write notes on :
- (a) Menstrual cycle (8)
  - (b) Structure and functions of ear (8)

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**Sr. No. of Question Paper : 305**

**Roll No.....**

Name of the Course : **Diploma in Pharmacy – Ist Year (2014)**

Name of the Paper : Health Education and Community Pharmacy (Paper VI)

Duration : 3 Hours

Maximum Marks : 80

**Instructions for Candidates**

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **five** questions.
3. All questions carry equal marks.

1. (a) Write a note on prevention and care for diabetes. (8)

(b) Discuss various immunological products. (8)

2. (a) How will you treat protein and vitamin deficiency? (8)

(b) What do you mean by mental health and spiritual health? (8)

of. 3. (a) What are the various methods to purify air and water. (8)

(b) Write about staining technique of organism. (8)

4. Write causative organisms and prevention of (4×4)

(a) Tuberculosis

(b) Measles

(c) Rabies

(d) Cholera

P.T.O.

5. Discuss various behavioral and physical methods of family planning. (16)
6. (a) What are the various elements of minor surgery? (8)  
(b) Explain in brief about demography cycle and family planning. (8)
7. (a) Explain the prevention, care and control for cancer. (8)  
(b) Write disinfection procedure for sputum and dead bodies. (8)