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Sr. No. of Question Paper : 2190

Roll No.....

Name of the Course : D. Pharma. – IIInd Yr. – 2013

Name of the Paper : Pharmaceutical Chemistry – II

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 **five** questions.
3. Q. No. 1 is compulsory.

1. (a) Write the structure of (**any eight**) : (1×8)

(i) Bicyclo (3.2.1) oct-2-ene.

(ii) Spiro (cyclohexane-1-1'-indene)

(iii) Thiophen

(iv) Pyrimidin-2,4 (1H, 3H) - dione

(v) Pyrazine

(vi) Xanthene

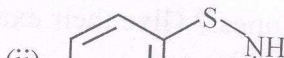
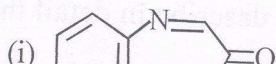
(vii) Phenazine

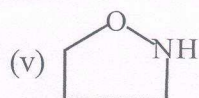
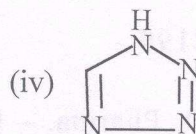
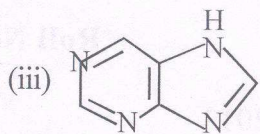
(viii) 1,3- Dihydro-2H-1,4-benzodiazepine-2-one.

(ix) 6H- Dibenzo (b,e) thiepin

(b) Write the IUPAC name of (**any four**) :

(1×4)





- (c) Write all possible enantiomers of ephedrine. (4)
2. (a) Write the category and specific uses of following drugs (**any five**)
- | | | |
|-------------------------|---------------------|-------|
| (i) Diloxanide furoate | (ii) D.E.C. | |
| (iii) Haloperidol | (iv) Diazepam | |
| (v) Methohexital sodium | (vi) Pyridostigmine | (2×5) |
- (b) Write the chemical name and structure of
- | | |
|--------------------|-------|
| (i) Chlorpromazine | |
| (ii) Adrenaline | |
| (iii) Phenformin | (2×3) |
3. Give detail account of metronidazole and methyl dopa. (8×2)
4. Write notes on :
- | | |
|-----------------------------------|-------|
| (a) Carbonic anhydrase inhibitors | |
| (b) High ceiling diuretics | (8×2) |
5. Define hypoglycemic agents. Write in detail about the properties, actions, uses and preparations of insulin. (16)
6. What is anesthesia ? Distinguish between general anesthetics and local anesthetics. Give structure, chemical name, storage conditions, stability, dosage forms and uses of Lidocaine. (16)
7. What are sex hormones ? Give their examples and describe in detail the male and female sex hormones and their uses. (16)

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Sr. No. of Question Paper : 2194

Roll No. 12260

Name of the Course : D. Pharma. – IIInd Yr. – 2013

Name of the Paper : XII Hospital and Clinical Pharmacy

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 **five** questions in all.
3. Selecting at least **two** questions from each Section.

SECTION – A

1. (a) Define hospital. Classify various types of hospitals. Discuss various functions of Hospital pharmacy. (8)
- (b) Discuss personnel and facilities required for efficient running of a hospital Pharmacy. (8)
2. (a) Discuss drug distribution system in “In patient” services. (8)
- (b) What are the various requirements for manufacturing of large volume parenterals ? (8)
3. Write a detailed note on :–
 - (a) Pharmacy Therapeutics committee (P.T.C.)
 - (b) Drug information services (8×2)

4 Write a note on :-

(a) Surgical cotton

(b) Bandages

(c) Adhesive tapes

(d) Application of computers in pharmacy (4×4)

SECTION – B

1. What are the various qualities of a clinical pharmacist ? Discuss various steps involved in patient counseling. (16)

2. (a) Discuss pathophysiology of following diseases (any two) :-

(i) Tuberculosis

(ii) Hepatitis

(iii) Diabetes (4×2)

(b) Discuss various physiological parameters of blood & urine. (8)

3. Write a short note on :-

(a) Adverse drug reaction

(b) Drug Dependence

(c) Teratogenicity

(d) Drug-food interaction (4×4)

4. (a) Define poison. What are the various steps involved in general treatment of poisoning. Name various antidotes used in the poisoning of barbiturates. (8)

(b) Define Bioavailability. Discuss various factors affecting bioavailability of drugs. (8)

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Sr. No. of Question Paper : 2191

Roll No.....

Name of the Course : D. Pharma. – IIInd Yr. – 2013

Name of the Paper : IX Pharmacology & Toxicology

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. Briefly describe the factors affecting drug response. (16)

2. Classify anti muscarinic agents. Write the pharmacology of Atropine. (16)

3. Write short notes on **any two** :-

(a) ACE Inhibitors

(b) Thiazide diuretics

(c) Aspirin (8+8)

4. Classify anti-TB drug, write drug regimen, Mechanism of action, adverse effects of INH and rifampicin. (16)

5. Write short notes on **any four** :-

(a) Theophylline

(b) D-Tubocurarine

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(c) Heparin

(d) Iron Preparations

(e) Metronidazole

(4×4)

6. Write short notes on **any two** :

(a) Insulin preparations

(b) Oral contraceptives

(c) Treatment of Leprosy

(8+8)

7. Write short notes on **any four** :

(a) Chlorpromazine

(b) Phenytoin

(c) Albendazole

(d) Ranitidine

(e) Halothane

(4×4)

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Sr. No. of Question Paper : 2193

Roll No.....

Name of the Course : D. Pharma. – IInd Yr. – 2013

Name of the Paper : XI Drug Store and Business Management

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. Write short note on **(any two)** :-

(a) Business organization

(b) Channel of distribution

(c) Advertising and window display (2×8)

2. Give the layout, selection of site, space and legal requirements of a drug store in a 500 bedded hospital. (16)

3. (a) Explain various pricing policies followed by different business organization. (8)

(b) Write a note on classification and codification of drugs. (8)

4. Explain the following terms **(any two)** :-

(a) Inventory carrying cost

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- (b) Lead time and safety stock
- (c) ABC method of inventory control (2×8)
5. (a) Qualities of a salesman. (8)
- (b) Explain the term 'Market Research' and describe the market research procedure. (8)
6. Discuss about the finance planning and sources of finance dealing in the banks. (16)
7. What do you understand by the term 'financial statement analysis' ? What are its objectives, importance, limitations and what are the techniques used for analysis ? (16)
8. Define the following (any two) :-
- (a) Double entry book keeping
- (b) Profit and loss account
- (c) Cash book (2×8)

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Sr. No. of Question Paper : 2192

Roll No.....

Name of the Course : D. Pharma. – IIInd Yr. – 2013

Name of the Paper : X Pharmaceutical Jurisprudence

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 manufacture of Alcoholic preparations “IN BOND” under Medicinal and Toilet Preparations Act. (16)
 2. Write note on the following :- (8+8)
 - (a) Functions of Pharmacy Council of India
 - (b) Conduct of pharmacist in relation to his job
 3. Write a note on Drug Price Control Order 1995. (16)
 4. (a) Discuss the provisions related to cultivation, production and sale of opium under Narcotic Psychotropic Substances Act & Rules. (8)
 - (b) Define the following terms :
 - (i) Poppy Straw
 - (ii) Opium

(iii) Misbranded drugs

(iv) Adulterated drugs

(2×4)

5. Discuss the following :-

(a) Duties of Drug Inspectors.

(b) Provisions of Medical Termination of Pregnancy Act & Rules under which Pregnancies can be terminated. (8+8)

6. (a) Discuss the constitution and functions of State Pharmacy Councils under the Pharmacy Act. (10)

(b) Discuss the circumstances under which name of pharmacist can be removed from the Register. (6)

7. Discuss the provisions related to Import of different categories of drug under Drugs and Cosmetic Act & Rules. (16)

8. Write short note on the followings :-

(a) Loan License

(b) Central Drug Laboratory

(c) Government Analyst

(d) Pharmacist Oath

(4×4)

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Sr. No. of Question Paper : 2189

Roll No.....

Name of the Course : D. Pharma. – IIInd Yr. – 2013

Name of the Paper : VII Pharmaceutics – II

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) Define prescription. Write in detail about various parts of prescription. (10)

(b) Translate the following latin terms into English.

(i) S.O.S.

(ii) Guttae

(iii) Hora somni

(iv) Modo dicto

(v) Cataplasma

(vi) Pulvis

(6)

2. (a) Discuss in detail about ointment bases. (10)

(b) Differentiate flocculated and deflocculated suspensions. (6)

3. (a) Classify powders. Write about preparation of effervescent granules. (8)

(b) Define geometric dilution and write its significance in pharmaceutical dispensing. (4)

(c) How do you dispense hygroscopic and eutectic substances ? (4)

4. (a) Define incompatibility. Discuss chemical incompatibility with suitable examples. (10)
- (b) Identify the type of incompatibility and suggest method of correction for the following :-
- | | |
|------------|--------|
| Castor Oil | 50 ml |
| Water q.s. | 200 ml |
- Make an emulsion (6)
5. (a) Write about different formula to calculate child dose. (6)
- (b) Describe factors influencing dose of a drug. (10)
6. (a) Discuss formulation of monophasic dosage forms. (10)
- (b) Comment on evaluation of parenteral products. (6)
7. Write short notes on **any four** :-
- (i) Pastes
 - (ii) Shampoos
 - (iii) Lotions
 - (iv) Deodorants
 - (v) Dentifrices
 - (vi) Lipsticks (4×4)