12223

3 Hours / 80 Marks

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| Seat No. | | | | |

- Instructions (1) All Questions are Compulsory.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answer with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Answer any <u>EIGHT</u> of the following:

- a) Translate the following terms in English :
 - i) Dolore urgente
 - ii) Si opus sit
 - iii) Utenda
 - iv) Ex lacte
- b) List reasons causing physical incompatibility.
- c) Calculate the dose of phenacetin for 14 years child using proper formula. Adult dose of phenacetin is 300 mg by oral route.
- d) Define dusting powder. Name two types of dusting powder.
- e) Differentiate between liniments and lotions.
- f) What are desirable qualities of suspensions.
- g) List different test carried out for identification of an emulsion.
- h) Define jellies. What are different types of jellies.
- i) What are properties of an ideal suppository base.

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1)

2.

ointment?

- - a) Describe modern method of dispensing along with its advantages and disadvantages.
 - b) Comment on following prescription:-

| R_{X} | Phenobarbitone sodium | 0.6 | gm |
|---------|-----------------------|-----|----|
| | Ammonium bromide | 8.0 | gm |
| | Water upto | 100 | ml |

Make a mixture.

- c) Define antiperspirants and deodrants. How do they function?
- d) Define cachets. Explain its two type.
- Differentiate between syrup and elixir. Give storage condition for elixir.
- Define suspension and explain two methods used for evaluation of physical stability of suspension.

3. Answer any FOUR of the following:

- What do you mean by cracking of emulsion? Describe any four factors responsible for cracking of an emulsion.
- b) Define ointment. Discuss in brief method for preparation of ointment containing combined iodine.
- Define suppositories. What are advantages and disadvantages of suppositories.
- d) What do you know about shampoo. Describe formulation of shampoo.
- e) Define parenteral dosage form. Give its advantages and disadvantages.
- Define eye drop. Name various preservatives used in formulation of eye drop. Give labelling conditions of eye drop.

0811 [3]

| | | | Marks |
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| 4. | | Answer any FOUR of the following: | 12 |
| | a) | Describe two methods for small scale preparation of emulsion | |
| | b) | Classify ointment bases with one example each. Give advantages of water soluble bases. | S |
| | c) | Write in brief about types of suppositories. | |
| | d) | What are depilatories. Mention the different methods used to remove unwanted hair from body. |) |
| | e) | Describe adjurants used in formulation of parenteral dosage form. | ; |
| | f) | Give in brief account of contact lens solutions. | |
| 5. | | Answer any FOUR of the following: | 12 |
| | a) | In what proportion should 10%, 8% and 4% alcohol be mixed to get 500 ml of 5% alcohol. | l |
| | b) | Report the incompatibility in following prescription and how will you correct it. | 7 |
| | | R _x Sodium salicylate | |
| | | Sodium bicarbonate 8 gm | |
| | | Chloroform water upto | |
| | | Make a mixture. | |
| | c) | Give significance of particulate matter monitoring test. Explain any two methods for particulate matter monitoring test. | 1 |
| | d) | How will you dispense very small quantity of potent medicament | |
| | e) | Describe method for preparation of mixture containing diffusible solids. | • |
| | f) | Differentiate between flocculated and non-flocculated suspensions | |
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0811 [4]

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6. Answer any FOUR of the following:

- a) List the factors that influence dose of drug. Explain any three factors.
- b) Describe in brief about effervescent granules. Give method of preparation of effervescent granules.
- c) Define incompatibility. Explain any three therapeutic incompatibility with its method of correction.
- d) Explain principle of LAL test and rabbit test used for evaluation of parenteral dosage form.
- e) What do you know about lipsticks. Write ideal properties of lipsticks. Describe in brief about formulation of lipsticks.
- f) Describe general method for preparation of suppositories.

12223 3 Hours / 80 Marks Seat No. (1) All Questions are Compulsory. Instructions – (2) Answer each next main Question on a new page. (3) Illustrate your answer with neat sketches wherever necessary. (4) Figures to the right indicate full marks. (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall. Marks 1. 16 Attempt any EIGHT of the following: a) Give structure and numbering method for. (Any two) i) Oxazole ii) Quinoline Piperidine iii) b) Define the following terms. (Any two) i) Antiseptics ii) **Antileprotics** iii) Anthelmintics c) Give official preparations of following drugs. (Any two) i) Benzyl Penicillin ii) Isoniazid

iii)

Dapsone

Marks

- d) Give two examples of following drug categories. (Any two)
 - i) Cardiotonic
 - ii) Antiarrhythmic agent
 - iii) Vasodilator
- e) Draw structure of the following. (Any two)
 - i) Aspirin
 - ii) Paracetamol
 - iii) Pethidine
- f) Give two uses and two brand names of (Any two).
 - i) Sulphadiazine
 - ii) Cephalexin
 - iii) Tetracycline
- g) Write the hydrolysis products of various cardiac glycosides.
- h) Draw structure give chemical name and uses of Indomethacin.
- i) Give structure for following organic groups (any two).
 - i) Acetyl
 - ii) Carboxyl
 - iii) Nitro
- j) Give structure of (any one).
 - i) Adrenaline
 - ii) Isoprenaline
- k) Give stability and storage conditions of (any two).
 - i) Diethyl ether
 - ii) Halothane
 - iii) Cyclopropane
- 1) Define and classify vitamins.

| 0812 | 3 | |
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| | | M | arks |
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| 2. | | Attempt any FOUR of the following: | 12 |
| | a) | Give properties, uses, structure of chlorocresol. | |
| | b) | Give chemical classifications of sulferamides. Draw structure of sulphacetamide. | |
| | c) | Classify Parasympatholytic agents. | |
| | d) | Define and classify hypoglycemic agents. | |
| | e) | What are antihistaminic agents. Give structure and uses of Diphenhydramine. | |
| | f) | Define and classify sympathomimetics. | |
| 3. | | Attempt any FOUR of the following: | 12 |
| | a) | Give the names of species of plasmodium that cause malaria. Draw structure of any one antimalarial drug. | |
| | b) | What are CNS stimulants? Give structure and uses of caffeine. | |
| | c) | Write structure of Anesthetic ether, Cyclopropane and Halothane. | |
| | d) | Define and classify sedative and Hypnotics. | |
| | e) | Draw structure and write uses and two brand names of Diazepam. | |
| | f) | Define Coagulants and Anticoagulants with examples. | |
| 4. | | Attempt any FOUR of the following: | 12 |
| | a) | Give uses of Glyceryl trinitrate and clofibrate. | |
| | b) | Define and classify Local Anesthetics. Draw structure of any one Local Anesthetic agent. | |
| | c) | Give prop, brand name and uses of Ibuprofen. | |
| | d) | Give structure chemical name and uses of thyroxine. | |
| | e) | What are steroidal drugs? Give details about any one steroidal sex hormone. | |
| | f) | Give deficiency symptoms of following vitamins: | |
| | | i) Vitamin A | |
| | | ii) Vitamin B ₁₂ | |
| | | iii) Vitamin K. | |
| | | | |

| 0812 | 2 | [4] | | | |
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| 5. | | Attempt any FOUR of the following: | 12 | | |
| | a) | Classify Antiepileptic drugs. Give uses and brand name of Phenobarbitone. | | | |
| | b) | Give official preparations and uses of (any two): | | | |
| | | i) Atropine | | | |
| | | ii) Metronidazole | | | |
| | | iii) Imipramine | | | |
| | c) | Define and classify Antipsychotics with suitable examples. | | | |
| | d) | Define and classify diagnostic agents. Give uses of lopanoic acid and Evans blue. | | | |
| | e) | Classify cardiovascular agents. | | | |
| | f) | Give types of diabetes. Give structure uses of Phenformin. | | | |
| 6. | | Attempt any FOUR of the following: | 16 | | |
| | a) | Give structure, properties, uses and brand name of Frusemide. | | | |
| | b) | Define and classify Antibiotics considering their chemical structure. | | | |
| | c) | What is meaning of following? Suggest drug for their treatment: | | | |
| | | i) Helminthiasis | | | |
| | | ii) Candidiasis | | | |
| | | iii) Amoebiasis | | | |
| | | iv) Giardiasis | | | |
| | d) | What is Neoplasm? Classify antineoplastic agents with examples. | | | |
| | e) | Explain Hypertension. Classify Antihypertensive agents with examples. | | | |
| | f) | Draw structure of Sulfadiazine, Sulfaguanide and write their IUPAC names. | | | |
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| 3 | Hours | | 80 | Marks |

| Seat No. | | | | |
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- Instructions (1) All Questions are Compulsory.
 - (2) Answer each next main Question on a new page.
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 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Define the following terms with two examples of each. [ANY EIGHT]

- a) Diuretics.
- b) Mydriatics.
- c) Haematinics.
- d) Synergism.
- e) Anorexiant.
- f) Antidepressants.
- Nasal decongestants.
- h) Antitussives.
- i) Vermifuge.
- j) Antipyretics.
- k) Antibiotics.
- Autacoids. 1)

0813 [2]

| 001 | 3 | [2] | |
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| • | | | arks |
| 2. | | Attempt any <u>FOUR</u> of the following: | 12 |
| | a) | Classify various routes of drug administration. Give merits and demerits of oral route. | |
| | b) | Define Antagonism. Explain the types of Antagonism with suitable examples. | |
| | c) | Explain factors affecting absorption of drugs. | |
| | d) | Define general anaesthetics and explain the stages of anaesthesia. | |
| | e) | Give symptoms and treatment of Barbiturate poisoning. | |
| | f) | Classify non-narcotic analgesics with suitable examples. Explain mechanism of action of salicylates. | |
| 3. | | Attempt any FOUR of the following: | 12 |
| | a) | Mention major toxicity for following: | |
| | | i) Streptomycin | |
| | | ii) Chloramphenicol | |
| | | iii) Tetracycline | |
| | | iv) Morphine | |
| | | v) Sulphonamides | |
| | | vi) Phenytoin. | |
| | b) | Mention antidote for following :- | |
| | | i) Salicylate poisoning | |
| | | ii) Morphine poisoning | |
| | | iii) Organophosphorus poisoning | |
| | | iv) Lead poisoning | |
| | | v) Tron poisoning | |
| | | vi) Belladona poisoning | |
| | c) | Mention dose and route for following :- | |
| | | i) Albendazole | |
| | | ii) Azithromycin | |
| | | iii) Glyceryl trinitrite | |

| 0813 | | | [3] | Marks |
|------|----|------|--------------------------------------|----------|
| d | l) | Ment | tion therapeutic uses of following:- | 1,141113 |
| | | i) | Diazepam | |
| | | ii) | Griseofulvin | |
| | | iii) | Insulin | |
| | | iv) | Vitamin B ₁₂ | |

vi) Caffeine

v)

- e) Mention Drug contain dicated in following:
 - i) Head injury

Quinidine

- ii) Constipation
- iii) Pregnancy
- iv) Renal failure
- v) Hyperacidity
- vi) Myasthenia gravis
- f) Mention drug of choice for following :
 - i) Peptic ulcer
 - ii) Schizophrenia
 - iii) Syphillis
 - iv) Angina pectoris
 - v) Leprosy
 - vi) Insomnia

4. Attempt any **FOUR** of the following:

a) Define and classify parasympatholytics with examples. Explain muscarinic actions of Acetylcholine.

- b) Classify Antiparkinsonism drugs with suitable examples and explain mechanism of action of levodopa.
- c) Define Epilepsy. Classify anti-epileptic drugs with suitable examples.
- d) Define and classify Antineoplastic drugs with suitable example.
- e) Explain Dale's vasomotor reversal.
- f) What is Bronchial Asthma? Give drug treatment for Bronchial Asthama.

0813 [4]

5.

Attempt any **FOUR** of the following:

a) Classify Antihypertensive drugs with suitable examples.

| | b) | Explain mechanism of action of sulphonamides. | |
|----|----------|---|---|
| | c) | Define and classify antimalarials with examples. Explain mechanism of action of Quinine. | |
| | d) | What are hypoglyacemics. Give the difference between Sulphonyl urea and Biguanides. | |
| | e) | Name the drug which is used as cardiotonics. Explain mechanism of action of it. | |
| | f) | Define Antiseptics and disinfectants and explain them with suitable examples. | |
| | | | |
| 6. | | Give reasons for the following statements. (Any FOUR) | 6 |
| 6. | a) | Give reasons for the following statements. (Any FOUR) Chlorpromazine is called as Largactil. | 6 |
| 6. | a) b) | <u> </u> | 6 |
| 6. | | Chlorpromazine is called as Largactil. | 6 |
| 6. | b) | Chlorpromazine is called as Largactil. Eating of cheeze is forbidden while on MAO inhibitor therapy. | 6 |
| 6. | b) c) | Chlorpromazine is called as Largactil. Eating of cheeze is forbidden while on MAO inhibitor therapy. Water is called as physiological diuretic. | 6 |
| 6. | b) c) d) | Chlorpromazine is called as Largactil. Eating of cheeze is forbidden while on MAO inhibitor therapy. Water is called as physiological diuretic. Thiopental has short duration of action. | 6 |

Marks



00814

12223

3 Hours / 80 Marks

| Seat No. | | | | | | | | |
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Instructions:

- (1) All Questions are *compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Figures to the right indicate full marks.
- (4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.
- (5) Answer as per the latest amendments.

Marks

1. Answer any EIGHT of the following:

- (a) Write objectives of Pharmacy Act, 1948.
- (b) Define 'Dutiable Goods', under Medicinal and Toilet Preparations Act, 1955.
- (c) State the objectives of Pharmaceutical Legislation. (Any two)
- (d) Give the objectives of Narcotic Drugs & Psychotropic Substances Act, 1985.
- (e) Define 'Lunatic' and 'Guardian' as per Medical Termination of Pregnancy Act, 1971.
- (f) Define "Poison" and give any two examples of poison as per Poison Act, 1919.
- (g) Define Magic Remedies as per Drug and Magic Remedies (Objectionable Advertisement) Act, 1954.



00814 [2 of 4]

- (h) What does Schedule G & Schedule M prescribe as per the Drugs & Cosmetics Act, 1940?
- (i) Define Law and Ethics.
- (i) Write objectives of Drugs & Cosmetics Act, 1940.
- (k) Give objective of DPCO 1995.
- (1) State the functions of DTAB & DCC as per D & C Act, 1940.

2. Answer any FOUR of the following:

12

- (a) Write three offences & penalties under Pharmacy Act, 1948.
- (b) Discuss ethics of pharmacist in relation to his job.
- (c) Differentiate Bonded and Non-Bonded Laboratory. (Any **Three**)
- (d) Explain the calculation of retail price as per Drugs (Price Control) Order 1995.
- (e) Define 'Illicit Traffic' under Narcotic Drugs & Psychotropic Substances Act, 1985.
- (f) How drugs are imported for personal use as per Drugs & Cosmetics Act, 1940?

3. Answer any FOUR of the following:

- (a) Describe recommendations of Drugs Enquiry Committee.
- (b) Give offences and penalties under Drugs and Magic Remedies (Objectionable Advertisement) Act, 1954.
- (c) Under what circumstances the name from register removed as per Pharmacy Act, 1948?
- (d) Define 'Opium', 'Coca leaf' and 'Coca derivatives' under Narcotic Drugs & Psychotropic Substances Act, 1985.
- (e) State in brief powers of Drug Inspector under Drugs & Cosmetics Act, 1940.
- (f) Write functions of Pharmacy Council of India as per Pharmacy Act, 1948.

00814 [3 of 4]

4. Answer any FOUR of the following:

12

- (a) Give constitution of DTAB as per Drug & Cosmetics Act, 1940.
- (b) Define "Net Worth" and "Free Reserve" as per Drugs (Price Control) Order, 1995.
- (c) State the classes of advertisement of Drugs which are prohibited under Drugs and Magic Remedies (Objectionable Advertisement) Act, 1954 (Any **Three**)
- (d) Explain role of Pharmacist in Health Care System.
- (e) Explain the function of Central Drug Laboratory as per Drugs & Cosmetics Act, 1940. (Any Six)
- (f) Mention the conditions for 'Approval of Place' for medical termination of pregnancy as per Medical Termination of Pregnancy Act, 1971.

5. Answer any FOUR of the following:

- (a) State the qualification for appointment of Drug Inspector as per Drugs & Cosmetics Act, 1940
- (b) State the penalty for 'Punishment for contravention in relation to cannabis' as per N.D.P.S. Act, 1985.
- (c) Explain Drugs Price Equalization Account as per Drugs (Price Control) Order,1995.
- (d) Discuss ethics of Pharmacist in relation to Medical Profession.
- (e) Describe dutiable goods exempted from excise duty as per the Medicinal and Toilet Preparations (Excise Duties) Act, 1955.
- (f) State the rules of State Government for possession, possession for sale and sale of any poison as per the Poison Act, 1919.

00814 [4 of 4]

6. Answer any FOUR of the following:

(a) Explain circumstances under which RMP can terminate pregnancy under Medical Termination of Pregnancy Act, 1971 and rules thereunder.

- (b) Enlist the licenses granted by the licensing authority for the sale, stock or distribution of drugs as per Drugs & Cosmetics Act, 1940.
- (c) Describe layout of bonded laboratory as per the Medicinal and Toilet Preparations (Excise Duties) Act, 1955.
- (d) Give the penalties as per Drugs & Cosmetics Act, 1940 for (i) Manufacture or sale of drugs without a valid license, (ii) Use of Government Analyst report for advertising.
- (e) Give the constitution of Pharmacy Council of India as per the Pharmacy Act, 1948.
- (f) Explain procedure of Drug Inspector for taking samples of Drugs or Cosmetic as per Drugs & Cosmetics Act, 1940.





3 Hours / 80 Marks

00815

| Seat No | | | | |
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| Seat No. | | | | |
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Instructions:

- (1) All Questions are *compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Solve any EIGHT of the following:

 $8 \times 2 = 16$

- (a) Define:
 - (i) Trade
 - (ii) Industry
- (b) Define Salesman and give the qualities of a good salesman.
- (c) What is the role of 'Karta' in Joint Hindu Family Business?
- (d) What is an account? Mention types of Accounts.
- (e) Write a note on VED Analysis.
- (f) Define Trial Balance and give its objectives.
- (g) Define Partnership. Name the various types of Partners.
- (h) Define Recruitment. Give methods of recruitment.
- (i) Define Bank. Enlist types of Banks.
- (j) Define Wholesalers. Give types of Wholesalers.
- (k) Write two advantages of opening a drug store in a rural area.
- (l) Define Budget. Give objectives of Budgetary Control.



00815 [2 of 4]

2. Solve any FOUR of the following:

 $4 \times 3 = 12$

- (a) What is Joint Hindu Family Business? Write its advantages and disadvantages.
- (b) Give main objectives of layout design of the drug store.
- (c) Explain in detail about purchasing procedure.
- (d) Enlist various accounting concepts and explain any one of them.
- (e) Explain the steps in selling process.
- (f) Write a note on evaluation of pharmacist.

3. Solve any FOUR of the following:

 $4 \times 3 = 12$

- (a) Explain functions or services of Commercial Banks.
- (b) What is ABC analysis method of inventory control? Describe with its advantages.
- (c) Write a note on Retail Departmental Store.
- (d) Define Trade. Give its classification in detail.
- (e) What is Ledger? Give its blank format with its importance.
- (f) Differentiate between advertisement & sales promotion.

4. Solve any FOUR of the following:

 $4 \times 3 = 12$

- (a) Differentiate between Profit & Loss Account and Balance Sheet.
- (b) Write a note on double entry book-keeping system. Give its advantages.
- (c) Write a note on window display. Give its advantages.
- (d) What is Tender? Explain the types of tenders.
- (e) Differentiate between partnership business & sole proprietorship.
- (f) Describe the methods used for training.

00815 [3 of 4]

5. Solve any FOUR of the following:

 $4 \times 3 = 12$

- (a) What do you understand by Petty Cash Book? Give its blank format with advantages.
- (b) Give objectives and functions of inventory control.
- (c) Explain various techniques of sales promotion.
- (d) Write a note on Financial Institutions.
- (e) Explain the basis for classification of Industry.
- (f) Explain various accounting conventions.

6. Solve any FOUR of the following:

 $4 \times 4 = 16$

- (a) Describe various functions of Management.
- (b) Differentiate between Wholesalers and Retailers.
- (c) Classify and describe Budget.
- (d) Describe methods of Financial Analysis.
- (e) Describe the methods for determination of economic order quantity. Give its advantages.
- (f) Describe selection procedure for various jobs.

[4 of 4]





00816

12223 3 Hours / 80 Marks

| Seat No. | | | | | | | | |
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Instructions:

- (1) All Questions are *compulsory*.
- (2) Answer each next main Question on a new page.
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- (4) Figures to the right indicate full marks.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Solve any EIGHT of the following:

 $2 \times 8 = 16$

- (a) Define: (Any **Two**)
 - (i) Hospital
 - (ii) Hospital Pharmacy
 - (iii) Drug Tolerance
- (b) Translate in English: (Any Four)
 - (i) Folium
 - (ii) Auristillae
 - (iii) Omni Hora
 - (iv) Hora Somni
 - (v) Guttae
- (c) Classify the types of outpatient.
- (d) Define : (Any **Two**)
 - (i) Cyanosis
 - (ii) Sialogogue
 - (iii) Dyspepsia



00816 [2 of 4]

- (e) State uses of: (Any Two)
 - (i) Catheters
 - (ii) X-Ray Machine
 - (iii) ECG
- (f) What advice must be given to the patient while using: (Any **Two**)
 - (i) Salicylates
 - (ii) Diazepam
 - (iii) Opthalmic Preparations
- (g) Name the four antibacterial agents added in formation of parenterals.
- (h) Give normal values : (Any **Two**)
 - (i) Thrombocytes
 - (ii) Blood sugar
 - (iii) WBC count
- (i) Define surgical dressings and state its types.
- (j) What do you mean by drug-food interaction? Give two examples.
- (k) Enlist four functions of PTC.
- (1) Define the following:
 - (i) Bioequivalance
 - (ii) Relative Bioavailability

2. Answer any FOUR:

 $3 \times 4 = 12$

- (a) Enlist six functions of Hospital.
- (b) Define clinical pharmacy and describe the scope of clinical pharmacy.
- (c) Explain the role of PTC in drug safety.
- (d) State three points of difference between drug addiction and drug habituation.
- (e) Explain the three sources from which information about drugs is collected for setting up DIC.
- (f) Define Adverse Drug Reactions and write the causes of ADR.

00816 [3 of 4]

3. Answer any FOUR:

 $3 \times 4 = 12$

- (a) Enlist six functions of Hospital Pharmacy.
- (b) Explain Pathophysiology of: (Any **One**)
 - (i) TB
 - (ii) Hepatitis
- (c) Write the identification tests of Absorbent cotton wool. I.P.
- (d) Define poisons and explain types of poisoning.
- (e) State uses of: (Any **Three**)
 - (i) Allis Tissue Forceps
 - (ii) Scalpels
 - (iii) Artery forceps
 - (iv) Blunt Scissors
- (f) Explain withdrawal symptoms & treatment of alcoholism.

4. Answer any FOUR:

 $3 \times 4 = 12$

- (a) Classify hospitals according to:
 - (i) Size
 - (ii) System of Medicine
- (b) Write the composition, functions & dose of universal antidote.
- (c) Enlist six advantages of Unit Dose Dispensing System.
- (d) Explain Teratogenecity with examples.
- (e) Draw & explain typical layout of hospital pharmacy.
- (f) Define Patient compliance. Explain any four reasons of patient non-compliance.

5. Answer any FOUR:

 $3 \times 4 = 12$

- (a) Explain factors affecting make or buy decision in hospital.
- (b) State type of drug interaction observed between
 - (i) Folic acid & Phenytoin
 - (ii) Tetracycline & dairy products
 - (iii) Penicillin & Probenecid

00816 [4 of 4]

- (c) Write a note on air control in sterile manufacture.
- (d) What is ESR? State its significance.
- (e) Write guiding principles while using HF.
- (f) Explain pathophysiology of: (Any **One**)
 - (i) CCF
 - (ii) Angina Pectoris

6. Answer any FOUR:

 $4 \times 4 = 16$

- (a) Enlist the applications of computer in pharmacy and explain its role in inventory control.
- (b) Define bioavailability. Explain how physical properties of drug affect bioavailability.
- (c) Write notes on : (Any **Two**)
 - (i) Prepacking of drugs
 - (ii) Ryle's Tube
 - (iii) Drug Information Bulletin
- (d) Explain: (Any Two)
 - (i) Opium Poisoning
 - (ii) Pharmacodynamic Drug Interactions
 - (iii) Plaster of Paris
- (e) (i) State the pharmacist requirement according to bed strength of hospital.
 - (ii) What is bedside pharmacy?
- (f) (i) Write the characteristics of idiosyncracy.
 - (ii) What is drug abuse? Stat steps involved in its treatment.



| | | | | | Marks | 5 | Seat | No. | | | | | | | | |
|----|--------|---------|-------|-------|--------------------------------------|----------|----------|--------|------|-------|-------|-----|----|------|------|-----|
| 15 | minute | | | | | | | | | | | | | | | |
| | Instru | ection. | s – | (1) | All Questi | ons ar | e Com | pulsor | у. | | | | | | | |
| | | | | (2) | Answer ea | ich nex | kt mair | ı Que | stio | n o | n a | ne | ew | pag | e. | |
| | | | | (3) | Illustrate y necessary. | our ar | iswers | with | nea | t sk | tetc. | hes | wł | nere | ever | |
| | | | | (4) | Assume su | uitable | data, i | f nec | essa | ry. | | | | | | |
| | | | | (5) | Figures to | the ri | ght inc | licate | full | m | arks | S. | | | | |
| | | | | (6) | Mobile Ph Communic Examination | eation o | devices | | • | | | | | | | |
| | | | | | | | | | | | | | | | Ma | rks |
| 1. | | Atte | mpt | any | EIGHT 0 | f the | followi | ng: | | | | | | | | 16 |
| | a) | Tran | slate | foll | owing Latin | n term | in to | Englis | sh. | | | | | | | |
| | | i) | Pal | vis | | | | | | | | | | | | |
| | | ii) | Daı | ndus | | | | | | | | | | | | |
| | | iii) | Jen | tacul | um | | | | | | | | | | | |
| | | iv) | Si | opus | sit | | | | | | | | | | | |
| | b) | Enli | st th | e rea | sons for " | Γherape | eutic in | comp | atib | ility | ,·. | | | | | |
| | c) | Diffe | erent | iate | between lir | iment | and lo | tion. | | | | | | | | |
| | d) | Defi | ne n | nixtu | re and drau | ıght. | | | | | | | | | | |
| | e) | Con | vert | follo | wings. | | | | | | | | | | | |
| | | i) | One | e po | und = | { | grain (| avoir) | | | | | | | | |
| | | ii) | One | e pir | t = | fl. | OZ. | | | | | | | | | |
| | | iii) | One | e tea | spoon ful | = | r | nl. | | | | | | | | |
| | | iv) | One | e mi | nim = | | ml | | | | | | | | | |
| | | | | | | | | | | | | | | | РΤ | () |

Marks

- f) Differentiate between suppositories and pessaries.
- g) Explain tyes of dusting powders.
- h) Give ideal qualities of suspension.
- i) Write any four disadvantages of polysaccharide emulsifying agents.
- j) Differentiate between antiperspirants and deodorents.

2. Attempt any FOUR of the following:

12

- a) Define prescription and explain various parts of prescription.
- b) Explain the incompatibility in following prescription and suggest suitable method of correction.

 R_{x}

| Sodium bicarbonate | 19 |
|--------------------|-------|
| Borax | 19 |
| Phenol | 0.59 |
| Glycerol | 209 |
| Water upto | 90 ml |

Make a spray solution

- c) Describe method of pyrogen testing using animal.
- d) Explain the following facial cosmetics.
 - i) Compact power
 - ii) Foundation cream
 - iii) Moisturizing cream
- e) State the meaning of creaming in emulsion and explain factors affecting creaming using Stock's equation.
- f) Find the concentration of sodium chloride required to make isotonic solution containing 0.5% chlorobutal and 1.5% cocaine hydrochloride. (Given: F.P. of 1% w/v solution of chlorobutal = -0.138° C and F.P. of 1% w/v solution of cocaine hydrochloride = -0.09° C)

| 0811 | [3] |
|------|-----|
|------|-----|

| | | | Marks |
|----|----|---|-------|
| 3. | | Attempt any FOUR of the following: | 12 |
| | a) | Define posology and calculate dose for a child of 6 month old having adult dose of 200 mg. | |
| | b) | State the problem in following powder's and mention the method of dispensing | |
| | | i) Hygroscopic and deliquescent | |
| | | ii) Efflorescent powder | |
| | | iii) Explosive powder | |
| | c) | List the synthetic thickening agents and give any four difference between flocculated and deflocculated suspension. | |
| | d) | Define throat paint, why Glycerine is used as vehicle and state any two labelling instructions for it. | |
| | e) | Explain source, properties, use of white soft paraffin with disadvantages of hydrocarbon ointment bases. | |
| | f) | Find the volume of 80%, 50%, 30% and water required to get 40% 500 ml. | |
| 4. | | Attempt any FOUR of the following: | 12 |
| | a) | List the emulsifying bases used in preparation of suppositorie and give their advantages over fatty bases. | S |
| | b) | Define shampoo and explain formulation of shampoo with examples. | |
| | c) | State any three differentiative point between diffusible and indiffusible mixture and describe method of preparation of diffusible mixture. | |
| | d) | Describe any three identification test for emulsion. | |
| | e) | Explain characteristic of eye suspension and formula for eye ointment base. | |

f) Explain adjusted chemical incompatibility with example.

0811 [4]

| | | | | Marks | | | | |
|----|----|---|--|-------|--|--|--|--|
| 5. | | Atte | empt any <u>FOUR</u> of the following: | 12 | | | | |
| | a) | Writ | e short note on Poultice. | | | | | |
| | b) | Expl | ain the following method of hair removal. | | | | | |
| | | i) | Epilation | | | | | |
| | | ii) | Depilation | | | | | |
| | c) | | e the ideal properties of emulsifying agent and list the ral polysaccharide used in preparation of emulsion. | | | | | |
| | d) | | rulate the displacement value of zinc oxide from owing data. | | | | | |
| | | i) | Capacity of mould = 15 grain | | | | | |
| | | ii) | Wt of six unmedicated suppositories = 90 grain | | | | | |
| | | iii) | Wt of six suppositories containing 40% zinc oxide = 132 grain | | | | | |
| | e) | Explain the following factor which play important role in selection of ointment base. | | | | | | |
| | | i) | Absorption and penetration | | | | | |
| | | ii) | Emulsifying properties | | | | | |
| | | iii) | Stability | | | | | |
| | f) | Desc | cribe any two methods of evaluation of suspension. | | | | | |
| 6. | | Atte | empt any <u>FOUR</u> of the following: | 16 | | | | |
| | a) | Expl | ain the following factor's of posology. | | | | | |
| | | i) | Tachyphylaxis | | | | | |
| | | ii) | Idiosyncrasy | | | | | |
| | | iii) | Disease condition | | | | | |
| | | iv) | Environmental factors | | | | | |
| | b) | Desc | cribe any two physical incompatibilities with example. | | | | | |
| | c) | Defi | ne cachets, explain its types and write the advantages of | it. | | | | |
| | d) | | ne jellies, explain its types and state the disadvantages ong agents. | f | | | | |

Marks

- e) Describe the various steps involved in processing of parenterals.
- f) State the calculation, primary emulsion formula, use and method of preparation of following prescription.

 R_{X}

| Liquid paraffin | 60 ml |
|-------------------|--------|
| Phenolphthalein | 2.09 |
| Agar | 1.59 |
| Acacia | 159 |
| Syrup | 159 |
| Cinnamon water to | 180 ml |

21222

3 Hours / 80 Marks

| Seat No. | | | | |
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| | | | | |

15 minutes extra for each hour

- Instructions (1) All Questions are Compulsory.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answer with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

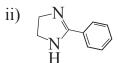
Marks

1. Attempt any EIGHT of the following:

- a) Give the structure and method of numbering for following:
 - i) Isoquinoline.
 - ii) Acridine.
- b) Write structure and uses of methyldopa.
- c) Write structures of
 - i) Lignocain.
 - ii) Pethidine.
- d) Write the structure of following substituents.
 - i) N-methyl carbamoyl.
 - ii) Guanidino.
- e) Write the structure of one drug containing following heterocycles.
 - i) Indole.
 - ii) Quinoline.

- f) Describe uses and official preparations of Biperiden.
- g) Define terms with suitable examples.
 - i) Adrenolytics.
 - ii) Cardiotonic drugs.
- h) Write structure and IUPAC name of phenformin.
- i) Enlist three anticoagulants. Write use for any one of them.
- i) Mention the uses and brand names of Pentazocin.
- k) Write the uses of Niacin.
- 1) Give IUPAC nomenclature for following compounds.

i)
$$H_3C$$
 N



2. Attempt any FOUR of the following:

12

- a) Draw structure and give IUPAC name for proflavin and chlorocresol.
- b) Define and classify anticonvulsants with suitable examples.
- c) Write structure and IUPAC names of
 - i) Isoprenaline.
 - ii) Acetaminophen.
- d) Mention properties, uses, dosage forms and brand names of Clofibrate.
- e) Classify antiarrhythmic drugs. Write structure of Procainamide.
- f) Write structure, IUPAC name and uses of Indomethacin.

3. Attempt any FOUR of the following:

- a) Define and classify antibiotics on the basis of chemical structure. Write suitable examples.
- b) Chemically classify sulphonamides. Write structure and uses of Suphaguanidine.
- c) Draw structure, write IUPAC name, uses and brand names of Chlorpromazine.
- d) Write structure, IUPAC name and uses of Ethambutol.

| 081 | 2 | [3] Mar | lza |
|-----|----|--|-----|
| | e) | Write structure, IUPAC name, uses and brand names of Glutethimide. | KS |
| | f) | Define anticholinergics. Describe therapeutic usefulness of anticholinergics. | |
| 4. | | Attempt any FOUR of the following: | 12 |
| | a) | Describe storage and uses of: | |
| | | i) Amphotericin B. | |
| | | ii) Propylidone. | |
| | | iii) Hamycin. | |
| | | iv) Congo red. | |
| | b) | Define and classify Antitubercular drugs with suitable examples. | |
| | c) | Give structure, chemical name, therapeutic uses and brand names of Ampicillin. | |
| | d) | Write structures and uses of | |
| | | i) Propantheline. | |
| | | ii) Neostigmine. | |
| | e) | Give properties, uses, dosage form and brand name of Betamethasone. | |
| | f) | Define vitamins. Write uses and deficiency state for following: | |
| | | i) Cyanocobalamine. | |
| | | ii) Pyridoxine. | |
| 5. | | Attempt any FOUR of the following: | 12 |
| | a) | Chemically classify antiamoebic drugs with suitable examples from each class. | |
| | b) | Write structure and brand names of | |
| | | i) Sulphadiazine. | |

c) Write chemical structure, IUPAC name, properties and uses of

drug belonging to 4-aminoquinoline group.

ii)

Thyroxine.

- d) Give therapeutic use and official preparations of
 - i) Chloramphenicol.
 - ii) Oxyphenbutazone.
- e) Name three antibiotics used to treat cancer. Give properties and uses of any one of them.
- f) Write chemical structure, IUPAC name, uses and brand names of Chlorpropamide.

6. Attempt any FOUR of the following:

- a) Write structures of following compounds.
 - i) 4-butyl-1, 2-diphenyl pyrazolidine-3, 5-dione
 - ii) 5,5 diphenyl imidazolidine 2, 4-dione
 - iii) $5-\alpha$ -androstane
 - iv) 3-(4-Chlorophenyl)-N, N-dimethyl-3-(2-pyridinyl)-1-propanamine.
- b) Describe properties, uses and brand names of
 - i) Dapsone.
 - ii) Diethylcarbamazine.
- c) Define and classify with examples.
 - i) Analeptics.
 - ii) Local anaesthetics.
- d) Give the structure and IUPAC name of
 - i) Frusemide
 - ii) Hydrochlorthiazide.
- e) Chemically classify antihistaminic drugs with suitable examples. Draw the structure of Diphenhydramine.
- f) Mention properties, uses and brand names of
 - i) Methimazole.
 - ii) Prednisolone.

21222

| 3 Hours / 80 Marks | Seat No. |
|--------------------------------|----------|
| 15 minutes extra for each hour | |

- Instructions (1) All Questions are Compulsory.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. 16 Define the following terms with two examples of each (any EIGHT)
 - a) Antibiotics
 - b) Mydriatics
 - c) Haematinics
 - d) Antiemetics
 - e) Expectorants
 - Diuretics f)
 - g) Purgatives
 - h) Anthelmintics
 - i) Sympathomimetics
 - j) Antiseptics
 - k) Antiarrhythmics
 - 1) Chemotherapy

0813 [2]

| 001 | 5 | [2] | Marks |
|-----|----|--|-------|
| 2. | | Attempt any FOUR of the following: | 12 |
| | a) | Give advantages and disadvantages of intravenous route of drug administration. | |
| | b) | Explain pharmacological actions of aspirin. | |
| | c) | Define local anaesthetics. State ideal properties of local anaesthetics. | |
| | d) | Explain 'Dale's vasomotor reversal' of adrenaline with graph. | |
| | e) | Define autocoids. Explain triple response of histamine. | |
| | f) | Classify anticancer drugs with examples. | |
| 3. | | Attempt any FOUR of the following: | 12 |
| | a) | Mention the drug of choice in the following conditions:- | |
| | | (i) Leprosy | |
| | | (ii) Gout | |
| | | (iii) Glaucoma | |
| | | (iv) Angina pectoris | |
| | | (v) Insomnia | |
| | | (vi) Rheumatoid Arthritis | |
| | b) | State the important side effects of following drugs:- | |
| | ĺ | (i) Penicillin | |
| | | (ii) Reserpine | |
| | | (iii) Quinine | |
| | | (iv) Tetracycline | |
| | | (v) Atropine Sulphate | |
| | | (vi) Aspirin | |
| | c) | Mention the drug contraindicated in following condition:- | |
| | | (i) Liver damage | |
| | | (ii) Pregnancy | |
| | | (iii) Head injury | |
| | | (iv) Hyper acidity | |
| | | (v) Peptic ulcer | |
| | | (vi) G 6 P D deficient patient | |

| 0813 | [3] | |
|------|--|-------|
| 0010 | [0] | Marks |
| d) | Give the route of administration of following drug:- | |
| | (i) Insulin | |
| | (ii) Mannitol | |
| | (iii) Nitro-glycerine | |
| | (iv) Nitrous oxide | |
| | (v) Diclofenac | |
| | (vi) Diazepam | |
| e) | Mention dose of following drugs :- | |
| | (i) Aspirin | |
| | (ii) Paracetamol | |
| | (iii) Diazepam | |
| | (iv) Dapsone | |
| | (v) Ranitidine | |
| | (vi) Mebendazole | |
| f) | Name one drug each which produce following effect:- | |
| | (i) Bone and teeth deformity | |
| | (ii) Cinchonism | |
| | (iii) Dryness of mouth | |
| | (iv) Cycloplegia | |
| | (v) Anaphylaxis | |
| | (vi) Gray baby syndrome | |
| 4. | Attempt any FOUR of the following: | 12 |
| a) | Define antagonism. Differentiate between competitive and non-competitive antagonism. | |
| b) |) Classify analgesics and antipyretics with examples. | |
| c) | Give symptoms and treatment for organophosphorus compound poisoning. | |

d) Classify anti-hypertensives with examples.

co-trimoxazole.

f)

e) Explain mechanism of action of sulphonamides and

Classify diuretics. Explain 'Thiazides' as diuretic.

0813 [4]

| 5. | | Attempt any FOUR of the following: | 12 |
|----|----|---|----|
| | a) | Define hypnotics and sedatives. Classify them. | |
| | b) | Give symptoms and treatment for belladonna poisoning. | |
| | c) | Classify oral hypoglycaemic with examples. | |
| | d) | Enlist and describe the various channels of drug excretion. | |
| | e) | Explain pharmacological actions of adrenaline. | |
| | f) | Discuss the stages of general anaesthetics. | |
| 6. | | Give the reason of following statements any FOUR. | 16 |
| | a) | Sulphonamides are not affective in presence of pus. | |
| | b) | Atropine produces photophobia. | |
| | c) | Eating of cheese is forbidden in patients with MAO inhibitor therapy. | |
| | d) | Adrenaline is given along with procaine to produce local anaesthesia. | |
| | e) | Sulphamethaxazole is combined with trimethoprim. | |
| | f) | Penicillin is life saving as well as life threatening drug. | |
| | | | |

Marks

21222

3 Hours / 80 Marks

| Seat No. | | | | |
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| Sout 1 to. | | | | |

15 minutes extra for each hour

Instructions:

- (1) All Questions are *compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.

Marks

1. Answer any EIGHT of the following:

16

- (a) State the recommendations of Drug Enquiry Committee.
- (b) Differentiate between Law and Ethics.
- (c) Define 'Registered Pharmacist' as per Pharmacy Act, 1948.
- (d) What do schedule N & X prescribes as per Drug & Cosmetic Act, 1940?
- (e) Enlist the objectives of Drug Price Control Order, 1995.
- (f) Give the offences & penalties under Objectionable Advertisement Act & Rule 1955.
- (g) Differentiate between bonded & non-bonded laboratory.
- (h) Give the *ex-officio* members of Pharmacy Council of India.
- (i) Define Alcohol & restricted preparation as per Medicinal & Toilet Preparation Act, 1955.
- (j) Define Poison & state the objectives of the Poisons Act, 1919.
- (k) Describe any four education regulations as per the Act.

[1 of 4] P.T.O.

00814 [2 of 4] (1) Give the schedules for following: Antitoxin (i) (ii) Chlorambucil (iii) Chlorpromazine (iv) Adrenalin 2. Answer any FOUR of the following: 12 As per Pharmacy Act 1948, define 'medical practioner'. Describe the offences & penalties under Poison Act, 1919. (b) State the procedure for dispatch of sample form drug inspector to government (c) analyst. (d) As per Drug & Magic Remedies Act, 1954 define: Advertisement (ii) Magic Remedies (e) Describe the general labelling conditions of drug under D & C Act, 1940. (f) Give the conditions for approval of places for termination of pregnancies under MTP Act, 1971. 3. Answer any FOUR of the following: 12 Write the functions of Pharmacy Council of India. (a) (b) Enlist the circumstances under which the pregnancies may be terminated as per MTP Act, 1971. Define 'Adultrated Drug' as per D & C Act, 1940. (c) What is first register? Give qualification required by a person to enter his (d) name into first register under Pharmacy Act, 1948. (e) Give three classes of advertisements prohibited under Drug & Magic Remedies Act, 1954.

Write the constitution of State Pharmacy Council as per Pharmacy Act, 1948.

(f)

00814 [3 of 4]

4. Answer any FOUR of the following:

- (a) How a pharmacist should handle the prescription according to the pharmaceutical ethics?
- (b) Write the offences & penalties under the Pharmacy Act, 1948.
- (c) Write the procedure for issue of alcoholic preparations from bonded manufactory.
- (d) State offences & penalties under Medical Termination of Pregnancy Act, 1971.
- (e) Explain the role of pharmacist in health care system.
- (f) Write in brief about objective & scope of Pharmaceutical Legislation in India.

5. Answer any FOUR of the following:

12

- (a) Give the formula for calculation of retail price of drug formulation & explain the terms involved in it as per Drug (Price Control) Order, 1995.
- (b) Explain in short the powers of drug inspector.
- (c) How the pharmacist is link between medical profession & public ? Explain as per Code of Ethics.
- (d) Which different sale licences are required for wholesale & retail of drugs as per D & C Act, 1945?
- (e) Under which conditions the name of registered pharmacist is removed from register?
- (f) Give the functions of Central Drug Laboratory.

00814 [4 of 4]

6. Answer any FOUR of the following:

(a) Give the constitution & functions of DTAB. Mention few changes in definition of drug, recommended by DTAB.

- (b) Define the following as per Narcotic Drug & Psychotropic Substance Act & Rule:
 - (i) Addict
 - (ii) Narcotic drug
 - (iii) Coca Leaf
- (c) What are the requirements of bonded laboratory?
- (d) State labelling particulars required to appear on label of ophthalmic preparations.
- (e) Write about offences & penalties under Narcotic Drug & Psychotropic Substance Act, 1985.
- (f) Define the following as per Medicinal & Toilet Preparation Act, 1955:
 - (i) Medicinal preparation
 - (ii) Toilet preparation

21222 3 Hours / 80 Marks

| Seat No. | | | | |
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| Scat No. | | | | |

15 minutes extra for each hour

Instructions:

- (1) All Questions are *compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Figures to the right indicate full marks.
- (4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Solve any EIGHT of the following:

16

- (a) Define the term:
 - (i) Trade
 - (ii) Delcredere agents
- (b) Give the difference between Heavy Industry and Light Industry.
- (c) Define financial statements. Why is it prepared?
- (d) Classify the different types of functional middlemen.
- (e) What are the objectives of sale promotion?
- (f) Define Budget. What are the main objectives of budgetary control?
- (g) Name the various branches of accounting.
- (h) What is ledger? Give the format of ledger.
- (i) Write the minimum qualification required to start new retail drug store and wholesale drug store.

[1 of 4] P.T.O.

00815 [2 of 4] State the advantages of window display. (j) (k) Explain in brief the lead time. (1) Write the miscellaneous services provided by banks. 2. Solve any FOUR of the following: 12 Define pharmaceutical management. What are the different functions of (a) management? (b) Explain different kinds of partners in a partnership business. (c) Give the difference between firm and company. (d) Which steps are involved in selling process? Mention the main advantages of perpetual inventory system. (e) (f) Elaborate the stages involved in purchase procedure. 3. Solve any FOUR of the following: 12 (a) Describe salient features of sole proprietorship. (b) Give the advantages & disadvantages of hire purchase trading houses. (c) Define scrap. How it is classified? State its method for disposal. (d) Describe 'Input-Output ratio analysis' technique used to control inventory. (e) Explain the methods of evaluation of pharmacist. "Advertisement is social waste." Give your comment. (f) 4. Solve any FOUR of the following: 12

Discuss the functions of wholesaler.

Discuss the advantages and disadvantages of Mail Order Business.

(a)

(b)

00815 [3 of 4]

- (c) Describe the general factors to be considered while selecting a site for drug store.
- (d) Discuss different methods of codification of items used in a retail store.
- (e) Which are the different techniques of sale promotion?
- (f) Define training. Explain various types of training given to the employee.

5. Solve any FOUR of the following:

12

- (a) Explain various hindrances which arises in trade, and discuss how these hindrances can be removed.
- (b) Define 'Inventory Control'. Discuss objectives of Inventory Control.
- (c) Draw an ideal layout design for retail drugs store and give its objectives.
- (d) Give short note on
 - (i) Advantages of joint Hindu family business
 - (ii) Tender
- (e) What do you understand by 'Market Research' ? Write advantages & disadvantages of market research.
- (f) Define finance. What are different types of finance required in a business?

 Discuss the various sources of finance.

6. Solve any FOUR of the following:

- (a) What is Balance Sheet? Give its uses. Detail the various items included in balance sheet.
- (b) Define the term 'Trial Balance'. Explain various errors in accounts which are present but not reflected in Trial Balance.

00815 [4 of 4]

- (c) Define the term 'Accounting Concept.' How does it differ from 'Accounting Conventions'? Explain the entity concept and dual aspect concept.
- (d) What is petty cash book? Explain working of petty cashier.
- (e) Explain the different types of accounts. Explain the rules of debits and credits used to make entries in the books of account.
- (f) Journalise the following transaction in the Journal of Bharat Medical and General Store, Bangalore.

| 01/05/2012 | Prabhu invested in business | ₹ 30,000/- |
|------------|---|------------|
| 02/05/2012 | Open an account with Axis Bank by depositing cash | ₹ 10,000/- |
| 03/05/2012 | Purchase good for cash | ₹ 600/- |
| 04/05/2012 | Withdraw cash for personal use | ₹ 500/- |
| 06/05/2012 | Cash sale | ₹ 1000/- |
| 25/05/2012 | Paid rent | ₹ 350/- |
| 29/05/2012 | Paid cartage | ₹ 100/- |

21222

3 Hours / 80 Marks

| Seat No. | | | | |
|----------|--|--|--|--|

15 minutes extra for each hour

Instructions:

- (1) All Questions are *compulsory*.
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- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Solve any EIGHT:

16

- (a) Define any two:
 - (i) Clinical pharmacy
 - (ii) Hospital pharmacy
 - (iii) Drug abuse
- (b) Write one example of each poison (any two):
 - (i) Corrosive
 - (ii) Neurotics
 - (iii) Organic
- (c) Draw the flow chart for patients in a typical hospital.
- (d) Mention the doses of the following:
 - (i) BAL
 - (ii) EDTA

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(e) Mention suitable method for sterilization: (i) Hand gloves OT (ii) (f) Name any two preservatives used in parenteral preparations. What are Elite hospitals? (g) Give meaning of following abbreviations: (h) (i) **UDDS** (ii) SGOT What is pre-packaging? (i) Give the uses of (any two): (j) (i) CT scanner (ii) Ultrasound sonography (iii) Lithotripsy Name four quality control test for parenteral. (k) (1) Translate following terms in English (any two): (i) Puluis (ii) Auristillare (iii) Hora somni 2. Solve any FOUR: 12 Explain the role of computer in purchase & inventory control in hospital. (a) Give the objectives of hospital pharmacy. (b) Classify hospitals on the basis of size. (c) (d) Give the methods for estimating demand. Give importance of Nursing services in hospital. (e) Explain the term 'Teratogenicity' with examples. (f)

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| 3. Solve any FOUR: | | | | | | |
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| | (a) | Describe the qualities of pharmacist required to run DIS. | | | | |
| | (b) | Describe the procedure for procurement of materials in hospital. | | | | |
| | (c) | Write the pathophysiology of Epilepsy OR Hypertension. | | | | |
| | (d) | Explain the factors affecting make or buy decision in hospital manufacturing. | | | | |
| | (e) | Enlist the name of standard prescribed by IP for absorbent cotton wool. Describe any one test. | | | | |
| | (f) | Write the content of Hospital formulary. | | | | |
| 4. | Solv | e any FOUR : | 12 | | | |
| | (a) | Define the term general patient, referred out patient and ambulatory out patient. | | | | |
| | (b) | Define patient compliance. Give reasons for non-compliance. | | | | |
| | (c) | Define and classify ADR with examples. | | | | |
| | (d) | Write steps involved in general treatment of poisoning. | | | | |
| | (e) | Write pathophysiology, signs & symptoms of angina pectoris. | | | | |
| | (f) | Explain the three sources of drug information with examples. | | | | |
| 5. | Solv | e any FOUR : | 12 | | | |
| | (a) | Give the normal values of (any three): | | | | |
| | | (i) Normal blood sugar | | | | |
| | | (ii) Clotting time of blood | | | | |
| | | (iii) Haemoglobin % in females | | | | |
| | | (iv) Sperm count | | | | |
| | | (v) RBC | | | | |
| | (b) | Define PTC and give the role of PTC in drug safety. | | | | |
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- (c) What advice must be given to patients while using following drugs:
 - (i) Diazepam
 - (ii) Boric acid
 - (iii) MAO inhibitters
 - (iv) Diphenhydramine
- (d) Write the purpose and importance of medical record in the hospital.
- (e) Explain the principle and working of an "Autoclave".
- (f) Write the mechanism of following Drug interaction:
 - (i) Folic acid Phenytoin
 - (ii) Warfarin Salicylates
 - (iii) Digoxin Diuretics

6. Solve any FOUR:

- (a) Give difference between Drug Habbituation and drug addiction.
- (b) Enumerate factors affecting bio-availability of drugs. Define bio-equivalence.
- (c) What are withdrawal symptoms of alcohol & write treatment for it.
- (d) Explain non-charge floor stock drug distribution system in Hospital. Write advantages and disadvantages of complete floor stock system.
- (e) Give any four drugs which causes addiction. How drug abuse is treated?
- (f) Enlist eight functions of hospital.