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DIPLOMA IN PHARMACY PART-I (Exam 2019)

DPH111 PHARMACEUTICS-I

Time – Three Hours

Maximum Marks – 80

Note: Answer **ANY FIVE** questions out of seven.

1. Write short notes on the following (**ANY FOUR**): (4x4)
 - (A) Water for injection
 - (B) Aseptic technique
 - (C) Different size of capsule
 - (D) Colloid mill
 - (E) Classification of solid dosage form
2. (A) Write short note on introduction of Pharmacopoeia. (8)
(B) Define dosage form and classify liquid dosage form. (8)
3. (A) Write official standard of powder. (8)
(B) With help of neat diagram discuss the working and advantages and disadvantages of fluid energy mill. (8)
4. (A) Explain extraction and its classification. (8)
(B) Write name of some filter aid and draw the diagram and write the working of meta filter. (8)
5. (A) Define evaporation. (2)
(B) Write the difference between evaporation, drying and distillation. (6)
(C) Write down the working of fluidized bed with neat and clean diagram (8)
6. Explain sterilization and write detailed note on methods of sterilization. (16)
7. Write notes on the following:
 - (A) Toxoids and their preparation. (8)
 - (B) Define tablet and explain evaluation of tablet in detail. (8)

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DIPLOMA IN PHARMACY PART-I (Exam-2019)

DPH112 PHARMACEUTICAL CHEMISTRY-I

Time – Three Hours

Maximum Marks – 80

Note: Answer **ANY FIVE** questions out of seven.

1. (A) Write the various sources of impurities in pharmaceuticals. Discuss any four in detail with examples (10)
(B) Write a detailed note on limit test for arsenic. (6)
2. (A) Enlist various major intra and extracellular electrolytes. Discuss about physiological acid base balance in human body (10)
(B) Write a note on sodium chloride and its preparation. (6)
3. (A) Define and classify antimicrobials and discuss their mode of action (8)
(B) Write the methods of preparation, physical and chemical properties and pharmaceutical uses of hydrogen peroxide. (8)
4. Write chemical formula, physical and chemical properties, storage conditions and uses of the following: (4x4)
(ANY FOUR)
(A) Boric acid
(B) Ferrous sulphate
(C) Sodium Nitrite
(D) Hydrochloric acid
(E) Ammonium chloride
5. (A) What are radiopharmaceuticals? Discuss about their handling, storage and applications (8)
(B) Write a note on measurement of radioactivity (8)
6. Write notes on the following : **(ANY FOUR)** (4x4)
(A) Expectorants
(B) Cyanide poisoning
(C) Respiratory stimulants
(D) Astringents
(E) Topical agents
7. (A) Define the following terms : (2x4)
i Antidotes
ii Cathartics
iii Antacids
iv Protective's
(B) What are dental caries? Explain the role of fluoride ions in prevention of dental caries. (8)

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DIPLOMA IN PHARMACY PART-I (Exam-2018)

DPH113 PHARMACOGNOSY

Time – Three Hours

Maximum Marks – 80

Note: Answer ANY FIVE questions out of seven.

1. Define volatile oils and write its classification, general characters, extraction and chemical test of the same. (16)
2. Describe the gross microscopic characters (transverse section) of Fennel or Senna leaf. (16)
3. Write the pharmacognostical features of the following drugs (ANY FOUR) (4x4)
 - (A) Ispaghula
 - (B) Vinca
 - (C) Tragacanth
 - (D) Rauwolfia
 - (E) Neem
 - (F) Garlic
4. Define adulteration and write about various adulteration methods with examples. (16)
5. Define the following medicinal terms and write biological source, active constituents and medicinal uses of one drug that belongs to medicinal term (ANY FOUR) (4x4)
 - (A) Diuretic
 - (B) Carminatives and Gastro Intestinal regulators
 - (C) Oxytocic
 - (D) Antimalarial
 - (E) Astringent
6. Define drug evaluation and write in detail about chemical and physical evaluation with suitable examples. (2+6+8)
7. Write biological source, chemical test and medicinal uses of the following drugs. (ANY FOUR) (4x4)
 - (A) Aloe
 - (B) Digitalis
 - (C) Cinnamon
 - (D) Agar-Agar
 - (E) Benzoin
 - (F) Opium

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DIPLOMA IN PHARMACY PART-I (EXAM 2019)
DPH114 BIOCHEMISTRY & CLINICAL PATHOLOGY

Time – Three Hours
Maximum Marks – 80

Note: Answer **ANY FIVE** questions out of seven.

1. Define and classify carbohydrates. Write down the qualitative test for carbohydrates. (16)
2. Define and classify protein giving suitable example. Write down the biochemical functions of protein. (16)
3. What are enzymes? How they classified? Explain with example Describe factors affecting enzyme reaction. (16)
4. (A) What are lipids? How they classified? Write with example (8)
(B) Describe disease related to lipid metabolism (8)
5. (A) What do you mean by the term glycolysis? Outline various steps involved in the conversion of glucose to pyruvate (8)
(B) Describe urea cycle. (8)
6. (A) Write down the source, biochemical role and deficiency disease of vitamin A and vitamin B₆ (8)
(B) Write down the source, functions and clinical manifestations of iron, calcium, and cobalt (8)
7. Explain the following (**ANY FOUR**) (4x4)
 - (A) Oligosaccharides
 - (B) Transamination
 - (C) Biuret test
 - (D) Triglycerides
 - (E) Osazone test
 - (F) α helical structure of protein

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DIPLOMA IN PHARMACY PART-I (EXAM-2019)
DPH115 HUMAN ANATOMY & PHYSIOLOGY

Time – Three Hours
Maximum Marks – 80

Note: Answer **ANY FIVE** questions out of seven.

1. Describe the physiology and anatomy of female reproductive system in detail. (16)
2. (A) Describe the structure of kidney with neat and labeled diagram. (8)
(B) Enlist various parts of digestive system and their functions. (8)
3. Explain in detail about the composition of blood. Add a short note on blood group (16)
4. (A) Write a detailed note on structures and functions of the organ of taste. (8)
(B) Describe the structure of heart with a labeled diagram. (8)
5. Describe various parts of respiratory system. Write a short note on physiology of respiration. (16)
6. Draw a neat and labeled diagram of animal cell. Write functions of its components (16)
7. Write a short note on : (4x4)
 - (A) Mitochondria
 - (B) Structure and functions of liver
 - (C) Skeletal muscles
 - (D) Physiology of pain

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DIPLOMA IN PHARMACY PART-I (EXAM-2019)
DPH116 HEALTH EDUCATION & COMMUNITY PHARMACY

Time – Three Hours
Maximum Marks – 80

Note: Answer **ANY FIVE** questions out of seven.

1. (A) Enumerate various indicators of health .Discuss the merits and demerits of infant mortality rate as health indicator in India's context (8)
(B) What is hardness of water? How can we remove different types of hardness from drinking water? (8)
2. Write short notes on : (**ANY FOUR**) (4x4)
 - (A) Folic acid deficiency
 - (B) Natural methods of contraception
 - (C) Bacterial spore
 - (D) Immunization schedule
 - (E) Role of pharmacist in society
 - (F) Role of computer in pharmacy
3. Write short notes on demographic cycle and contraceptive methods. (16)
4. (A) What are communicable diseases? Enumerate various respiratory infections and discuss 'Chicken Pox '. (8)
(B) What are non-communicable diseases? Define diabetes mellitus. Give the classification, causes and prevention of diabetes mellitus. (8)
5. Discuss the advantages and disadvantages of: (**ANY FOUR**) (4x4)
 - (A) Progesterone the only pill
 - (B) Male sterilization
 - (C) Medical termination of pregnancy
 - (D) Copper T
 - (E) Contraception
6. . What is disinfection? Give physical and chemical methods of disinfection. (16)
7. (A) What is first aid? Describe the first aid treatment of snake bite . (8)
(B) Differentiate between first aid treatment and the emergency treatment. (8)

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DIPLOMA IN PHARMACY PART-II (EXAM-2019)

DPH211 PHARMACEUTICS-II

Time – Three Hours

Maximum Marks – 80

Note: Answer **ANY FIVE** questions out of seven.

1. (A) What is “Prescription”? Explain parts of prescription with suitable example. (12)
(B) Convert 80% v/v alcohol into Proof spirit. (4)
2. (A) Define Posology. Give different formulae to calculate dose for children. (12)
(B) What is Physical incompatibility? Explain the physical incompatibility which occurs due to “Immiscibility”. (4)
3. (A) Define the term “Powder”. What are the advantages and disadvantages of powders as unit dosage forms? (8)
(B) What do you mean by “Cracking of Emulsion”? State the various reasons for the cracking of emulsion. (8)
4. (A) What are “Suspensions”? Discuss in brief about the formulation of suspension. (12)
(B) Differentiate between Flocculated and Non-flocculated suspension. (4)
5. (A) Discuss the “Trituration method” for the preparation of ointment. (8)
(B) What do you mean by “Suppositories”? Describe in brief the various types of suppositories. (8)
6. (A) Describe the term “Parenteral Products”. Discuss in brief the various steps involved in processing of parenteral preparations. (10)
(B) Define the term “Ophthalmic Products”. Write the essential characteristics of different ophthalmic products. (6)
7. Write short notes on the following (**ANY FOUR**): (4x4)
 - (A) Liniment
 - (B) Syrup
 - (C) Elixir
 - (D) Dentifrices
 - (E) Shampoo
 - (F) Paste

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DIPLOMA IN PHARMACY PART-II (EXAM-2019)

DPH212 PHARMACEUTICAL CHEMISTRY-II

Time – Three Hours

Maximum Marks – 80

Note: Answer **ANY FIVE** questions out of seven.

1. What do you mean by the term antimalarial? Give classification with examples; write structure, chemical name, uses and two famous brand name of Chloroquine (16)
2. (A) Classify diuretic drugs with examples. Give structure, chemical name, uses and famous brand name of urea (8)
(B) What are diagnostic agents? Describe in brief pharmaceutical formulations of diagnostic agents (8)
3. What do you mean by Antibiotics? Give classification with examples. Write structure, IUPAC name, physical properties, uses and two famous brand name of the drug Ampicillin (16)
4. Write structure, chemical name, category and therapeutic uses of the following : (4x4)
(A) Paracetamol
(B) Tetracycline
(C) Diazepam
(D) Dapsone
5. Write detailed notes on: (**ANY TWO**) (8x2)
(A) NSAIDs
(B) Steroidal drugs
(C) Antidepressant drugs
6. Write short notes on followings: (4x4)
(A) Antifungal Agents.
(B) Antiseptics and disinfectants.
(C) Local anesthetics.
(D) Hypnotics.
7. (A) Write a short note on adrenergic drugs. (8)
(B) Write a note on general anaesthetics. (8)

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DIPLOMA IN PHARMACY Part-II (EXAM-2019)
DPH213 PHARMACOLOGY AND TOXICOLOGY

Time – Three Hours
Maximum Marks – 80

Note: Answer **ANY FIVE** questions out of seven.

1. Define pharmacokinetics and explain various processes of absorption of drugs. Write factors affecting absorption. 16
2. (A) Define general anesthetic. Explain different stages of anesthesia. 8
(B) Write a note on drug antagonism. 8
3. Classify diuretic drugs. Give pharmacology and therapeutic use of Furosemide. 16
4. Classify nonsteroidal anti inflammatory drugs and write down pharmacological action and adverse effects of aspirin. 16
5. Classify oral hypoglycemic drugs. Write mechanism of action and adverse effects of Metformin. 16
6. Classify anti-tubercular drug. Explain mechanism of action and adverse effects of Isoniazid. 16
7. Write notes on **(ANY TWO):** 8x2
 - (A) Drugs used in glaucoma
 - (B) Anti cholinesterase drugs
 - (C) Anti cancer drugs

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DIPLOMA IN PHARMACY PART-II (EXAM-2019)

DPH214 PHARMACEUTICAL JURISPRUDENCE

Time – Three Hours

Maximum Marks – 80

Note: Answer **ANY FIVE** questions out of seven.

1. (A) Describe the constitution and functions of Pharmacy Council of India. (10)
(B) Discuss the professional ethics for a pharmacist in relation to his trade. (6)
2. (A) Discuss objectives, offences and punishment under the Narcotic drugs and Psychotropic Substances Act, 1985. (10)
(B) Describe latest 'Drug Price Control Order' in detail. (6)
3. Write a detailed note on the origin and development of pharmaceutical legislation in India (16)
4. (A) Describe the qualification and duties of drug inspectors as per Drugs and Cosmetics Act, 1940 (8)
(B) Give the conditions for grant of license for wholesale of drugs specified in schedule C, C1 and X. (8)
5. Describe "advertisements which are permitted and prohibited" in the Drugs and Magic Remedies Act, 1954. (16)
6. (A) Discuss the conditions under which name of a pharmacist can be removed from the register of the state pharmacy council. (8)
(B) Explain the provisions of Medical Termination of Pregnancy Act, 1971 under which a pregnancy can be terminated. (8)
7. Write short notes on the following **(ANY FOUR)**: (4x4)
 - (A) Scope and objectives of pharmaceutical legislation in India
 - (B) Poisons act
 - (C) Education regulations- 91
 - (D) Misbranded and adulterated drugs
 - (E) Qualifications and procedure for registration of pharmacist.

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DIPLOMA IN PHARMACY PART-II ATKT (EXAM-2019)
DPH215 DRUG STORE AND BUSINESS MANAGEMENT

Time – Three Hours
Maximum Marks – 80

Note: Answer **ANY FIVE** questions out of seven

1. Define Trade. Classify it and give detail on each type. (16)
2. Explain various accounting concepts. Write a detailed note on double entry bookkeeping system (16)
3. (A) Give the comparison between Wholesalers and Retailers. (8)
(B) Discuss various objectives of advertising. (8)
4. (A) What do you mean by inventory control? Explain ABC inventory system. (8)
(B) Give a short note on economic order quantity (EOQ). (8)
5. (A) Give the layout of a drug store. Mention the objectives of layout design. (8)
(B) Write a note on balance sheet. (8)
6. (A) Give a short note on Recruitment and Training. (8)
(B) Elaborate the types of banks (8)
7. (A) Discuss the main functions of commercial banks. (8)
(B) Give a short note on general ledger and trial balance. (8)

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DIPLOMA IN PHARMACY PART-II (EXAM-2019)
DPH216 HOSPITAL AND CLINICAL PHARMACY

Time – Three Hours
Maximum Marks – 80

Note: Answer **ANY FIVE** questions out of seven

1. (A) Define hospital. What are its objectives? (8)
(B) Describe two methods for indoor patients drug distribution system. (8)
2. Define the following with brief outline. (4x4)
(A) Drug information bulletin
(B) Hospital formulary system
(C) Surgical dressings
(D) Testing of raw material
3. (A) What is the role of PTC in drug safety and ADR monitoring (8)
(B) Write a note on surgical instruments. (8)
4. (A) Explain the health maintenance system in India with special context to role of a pharmacist (8)
(B) What abilities are required for a good hospital pharmacist (8)
5. (A) Define bioavailability. Write down the factors affecting it. (8)
(B) Write a note on food drug interaction with suitable example (8)
6. (A) Explain Pathophysiology of tuberculosis and diabetes (8)
(B) Write down the scope of clinical pharmacy (8)
7. Write note (**ANY TWO**) (8x2)
(A) Importance of computers in hospital pharmacy
(B) Treatment of barbiturate poisoning
(C) Drug induced disease