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## Diploma in Pharmacy Second Year Main Examination, April-2021 Pharmaceutics-II [DPY201]

<u>Time: 3:00 Hrs</u>		Max Marks 80	
Note:	Attempt any 5 questions Each question carries ed	s & question No.1 is compulsory. qual marks.	
Q.1	<b>Multiple Choice Question</b>	ons. (1x16) (Attempt any 16)	
(i)	One <b>tsp</b> (tea spoon full ) is	equal to.	
	(a) 5 ml	(b) 10 ml	
	(c) 15 ml	(d) 30 ml	
(ii)	Which of the following dos	age forms delivers the API to GI tract.	
	(a) Rectal suppositories	(b) Nasal spray	
	(c) Vaginal pessaries	(d) Eye drops	
(iii)	In medical prescriptions tid	stands for.	
	(a) Ter in die	(b) At morning	
	(c) At noon time	(d) At bed time	
(iv)	In medical prescriptions <b>HS</b>	S stands for.	
	(a) Once a day	(b) Twice a day	
	(c) Thrice a day	(d) At bed time	
(v)	Which of the following will be the slowest step in tablet drug absorption?		
	(a) Tablet disintegration to		
	(b) Granules disintegration to fine particles		
	(c) Fine particles dissolution		
	(d) Dissolution absorbed int	to the blood	
(vi)	Which form of the drug has	•	
	(a) Coated tablets	(b) Solutions	
	(c) Tablets	(d) Emulsions	
(vii)	-	for lipophilic drugs proved better?	
	(a) Easy manufacturing		
	<ul><li>(b) The higher stability of the drug in emulsion form</li><li>(c) Presented a large surface area of oil to the GIT for the absorption of the drug</li></ul>		
	(d) Fast clearance from the		
(viii)	•	iting step in the absorption of a drug from suspension dosage?	
	(a) Tablet disintegration to granules		
	(b) Granules disintegration	to fine particles	

	<ul><li>(c) Fine particles dissolution</li><li>(d) Dissolution absorbed into the blood</li></ul>			
(ix)	Which coating is thin and disso	olves rapidly?		
` /	(a) Sugar coating	(b) Film coating		
	(c) Enteric coating	(d) Sealing coating		
(x)	Which option describes the fun	action of the enteric coated drug?		
	(a) Tough dissolves slowly			
	(b) Thin dissolves completely			
	(c) Dissolves only in alkaline p	H of the intestine		
	(d) Shellac coating			
(xi)	From the below options which	will be the most widely used form of dosage?		
	(a) Emulsion	(b) Solutions		
	(c) Tablets	(d) Powders		
(xii)	Most of the mouth washes cont	tains up to 50% of		
()	(a) Alcohol	(b) Water		
	(c) Fluoride	(d) Phosphate		
(xiii)	Monophasic doses form used in other than oral cavity			
(AIII)	(a) Douches	(b) Draught		
	(c) Elixirs	(d) Linctus		
(xiv)	Which of the following oral liquid formulations which would be considered as oropharyngeal formulation.			
	(a) Syrup	(b) Elixirs		
	(c) Mouthwash	(d) Linctus		
(xv)	Which of the following formulations would not be applicable to ocular administration			
	(a) Solution	(b) Liniment		
	(c) Suspension	(d) Ointment		
(xvi)	Intravenous, intramuscular and subcutaneous are all examples of which rout of administration.  (a) Pulmonary administration  (b) Parental administration  (c) Otic administration  (d) Ocular administration			
Q.2	<ul><li>(a) Define Ointments and Pastes. Explain the difference between pastes and Ointment?</li><li>(b) Explain different type of pharmaceutical formulation?</li></ul>			
	(b) Explain different type of ph	armaceutical formulation?		
Q.3	(a) What are suspension write the qualities of ideal suspension?			
		of pastes and their preservatives?		
Q.4	(a) Define emulsion and emulsifying agents in detail?			
<b>~</b> .,	(b) Explain the types of jellies			
	(o) Explain the types of Jeilles	and preparations of Jenies:		

Q.5	<ul><li>(a) Define Monophasic Liquid Dosage Form &amp; Write down vehicles for Mixtures?</li><li>(b) Write Explain types of additives</li></ul>			
Q.6	<ul><li>(a) Define Powders? Explain its types, advantages and disadvantages in brief?</li><li>(b) Write Method of preparation of sterile water for injection?</li></ul>			
Q.7	<ul><li>(a) Classify briefly ointment base. Describe any one of them?</li><li>(b) Describe the packaging process of sterile dosage form</li></ul>			
Q.8		lassify ophthalmic products with examply rite manufacturing process of ophthalms		ces?
				Enrollment No
Time:	<b>3.00</b>	Diploma in Second Year Main Exa PHARMACEUTICAL CH Hrs	amination, April-2021 IEMISTRY - II [DPY202	
	Atter	npt any five questions. question carries equal marks.	Wax Warks	<u> </u>
Q.1	(i) (ii) (iii) (vi) (v) (vi) (vi)	ill in the blanks with suitable words. (In Diabetes mellitus is a metabolic disorder Mebendazole is an example of	er which is caused by antibiotic. tagonist drug. bod sugar level.	deficiency.
Q. 1	( <b>b</b> ) M (i)	Iultiple Choice Question- Emetine is used in the treatment of (a) Malaria (c) Amebiasis	(b) Tuberculosis (d) None of the above	
	(ii)	Which one of these is a first line dr (a) PAS (c) Ethambutol	ug to treat tuberculosis - (b) Rifampin (d) Ethionamide	
	(iii)	Naltrexone is a morphine <ul><li>(a) Agonist</li><li>(c) Partial antagonist</li></ul>	<ul><li>(b) Antagonist</li><li>(d) All of the above</li></ul>	
	(iv)	Oxazepam is a metabolite of <ul><li>(a) Diazepam</li><li>(c) Chlordiazepoxide and diazepam</li></ul>	(b) Lorazepam (d) Alprozolam	
	(v)	The tetracycline with highest antile (a) Docycycline	protic activity is (b) Oxytetracycine	

		(c) Methacycline	(d) Minocycline	
	(vi)	Piperazine citrate is used as		
		(a) Antimalerial	(b) Anthemintic	
		(c) Metabolite antagoinst	(d) Amoebicidal	
	(vii)	The inhalation anesthetic with the fas		
		(a) Nitrous oxide	(b) Enflurane	
		(c) Isoflurane	(d) Nitric oxide	
	(viii)	The recent antifungal agent for topica	al use is	
		(a) Nystatin	(b) Amphotericin B	
		(c) Ketoconazole	(d) Fluconazole	
	(ix)	Indirectly acting sympathomimatic S	hock is	
		(a) Dopamine	(b) Tyramine	
		(c) Phenylephrine	(d) Isoprenaline	
	(x)	Which of the following is most effective	ve antitubercular drug?	
		(a) INH	(b) PAS	
		(c) Streptomycin	(d) Ethambutol	
Q.2		a) Write about antiseptic and Disinfectants? b) Write about tranquilizers?		
Q.3	<ul><li>(a) Write about anthelmintic drugs with examples?</li><li>(b) Describe the chemistry and uses of any two antimalarial drugs?</li></ul>			
Q.4	<ul><li>(a) Describe cholinergic drugs.</li><li>(b) Describe the chemical structure, nomenclature and uses of Indomethacin?</li></ul>			
Q.5	<ul><li>(a) Write the synthesis of Neostigmine?</li><li>(b) Explain the diuretic drugs with example. Write the synthesis of ethylnitrite.</li></ul>			
Q.6	(a) Explain Anti- neoplastic drugs with example. Write the properties and uses of actinomycin? (b) Write note on- i) Diagonostic Agent & ii) Hypoglycemic Agent.			
Q.7	<ul><li>(a) Write a detail note on Adrenergic Antagonist.</li><li>(b) What are NSAIDs? Classify them &amp; draw three structure belonging this category?</li></ul>			
Q.8	<ul><li>(a) Give detail account of CNS stimulants with example.</li><li>(b) Write a descriptive note on Antimalarial Drug.</li></ul>			
			Enrollment No	
		<b>.</b>	Linoiment No	

### Diploma in Pharmacy Second Year Main Examination, April-2021 Pharmacology & Toxicology [DPY203]

Pharmacology & Toxicology [DPY203]

Max Marks 80

Note: Attempt all questions.

**Time: 3:00 Hrs** 

Each question carries equal marks.

<b>Q.1</b> (i)	Multiple Choice Question.  Autacoids differ from hormones in that: (a) Autacoids are involved only in the case (b) Autacoids do not have a specific cell (c) Autacoids generally act locally at the (d) Both 'B' and 'C' are correct	ausation of pathological states l/tissue of origin
(ii)	Which of the following is a selective H1 (a) 4-methyl histamine (c) 2-Thiazolyl ethylamine	receptor agonist: (b) Impromidine (d) Chlorpheniramine
(iii)	Histamine exerts the following actions (a) Dilatation of large blood vessels (b) Dilatation of small blood vessels (c) Stimulation of isolated guineapig her (d) Itching	·
(iv)	Fall in blood pressure caused by larger (a) H1 antihistaminics alone (b) H2 antagonists alone (c) Combination of H1 and H2 antagoni (d) None of the above	
(v)	Histamine is involved as a mediator in to (a) Delayed hypersensitivity reaction (c) Carcinoid syndrome	he following pathological condition:  (b) Inflammation  (d) Variant angina
(vi)	The drug that can directly release hista reaction is:  (a) Aspirin	mine from mast cells without involving antigen-antibody  (b) Procaine
	(c) Morphine	(d) Sulfadiazine
(vii)	High anticholinergic property is present (a) Diphenhydramine (c) Cetirizine	in the following antihistaminic: (b) Astemizole (d) Terfenadine
(viii)	The following H1 antihistaminic has ac stimulating properties: (a) Promethazine (c) Cyproheptadine	dditional anti 5-HT, anticholinergic, sedative and appetite  (b) Terfenadine (d) Hydroxyzine
(ix)	While prescribing a first generation H1 (a) Driving motor vehicles (c) Strenuous physical exertion	antihistaminic the patient should be advised to avoid: (b) Consuming processed cheese (d) All of the above
(x)	Select the H1 antihistaminic which is us (a) Loratadine (c) Fexofenadine	sed topically in the nose for allergic rhinitis:  (b) Cetirizine  (d) Azelastine
(xi)	The smooth muscle stimulating action of (a) Bronchi	of 5-HT is most marked in the: (b) Intestines

	(c) Ureter	(d) Biliary tract	
(xii)	The 'amine' ergot alkaloid differs from (a) High oral bioavailability (c) Weaker oxytocic action	'amino acid' ergot alkaloid in that it has: (b) Better CNS penetrability (d) Strong anti-5-HT action	
(xiii)	The primary route of administration of i (a) Intradermal (c) Intramuscular	nsulin is:  (b) Subcutaneous  (d) Intravenous	
(xiv)	The most common adverse reaction to in (a) Hypoglycaemia (c) Urticaria	nsulin is:  (b) Lipodystrophy  (d) Angioedema	
(xv)	Which of the following is a neuroglucop (a) Sweating (c) Tremor	penic symptom of hypoglycaemia: (b) Palpitation (d) Abnormal behavior	
(xvi)	Insulin resistance can be minimized by t (a) Corticosteroids (c) Protamine	the use of: (b) Tolbutamide (d) Monocomponent/Human insulin	
Q.2	<ul><li>(a) Discuss the definition of pharmacology and scope of pharmacology</li><li>(b) Write the concepts of essential drug with example</li></ul>		
Q.3	<ul><li>(a) Write brief note on routes of drug administration with example</li><li>(b) Write detail about agonists, antagonists with example.</li></ul>		
Q.4	(a) Write detail about tachyphylaxis, idiosyncrasy, and allergy with example (b)What is Pharmacokinetics? Discuss the absorption, distribution, metabolism and excretion of drugs		
Q.5	(a) Write detail about G-protein—coupled receptors & ion channel receptor with example (b) Write the dose response relationship and therapeutic index.		
Q.6	<ul><li>(a) Write detail about adverse drug reactions.</li><li>(b) Write detail about Drug interactions with example</li></ul>		
Q.7	<ul><li>(a) Write the brief process of drug discovery, Describe the phases of clinical trials.</li><li>(b) Write detail classification of neurotransmitters.</li></ul>		
Q.8	· ·	pathomimetics and Parasympatholytics with example omimetics, and sympatholytics with example	

Enrollment No.....

#### Diploma in Pharmacy Second Year Main Examination, April-2021 Pharmaceutical Jurisprudence [DPY204]

Max Marks 80 **Time: 3:00 Hrs Note:** Attempt any five questions. Each question carries equal marks. 0.1 (a) Fill in the blanks with suitable words. (any 8) If pharmacist is making an attempt to capture the business of fellow pharmacist it is . . Pharmacist should not interfere the duties of physician, he should carry out his own duties (ii) that is \_\_\_\_\_. (iii) If pharmacist has made secret contract with doctor it is called as . . (iv) Schedule F(ii) prescribes the standards for\_\_\_\_\_. Schedule M(i) prescribes the requirements of factory premises, plant, equipments, etc for the manufacture of \_\_\_\_\_. (vi) The pharmacist is a vital link between in health care system. (vii) Requirements and guidelines on the clinical trials for the import and manufacture of new drug is specified in \_\_\_\_\_. (viii) Drugs marketed under the generic names only are specified in \_\_\_\_\_\_ (ix) Standards of patent and proprietary medicine is specified in . . (x) Schedule B is related with . **Q.1** (b) MCQ: (Any 8) (i) Before independence drugs were imported from following countries except \_\_\_\_\_. (a) United Kingdom (b) Germany (c) France (d) America \_\_\_\_started Bengal Chemicals and Pharmaceuticals Ltd in 1901 (a) Prof. T. K. Gajjar (b) Prof. M. L. Schroff (c) Acharya Prafulla Chandra Ray (d) Acharya Prafulla Chandra Ray (iii) The main objective of the pharmaceutical legislation is to ensure that the patient receives the required quality of drug that is previously tested and evaluated for its . . (a) Satisfaction and efficacy (b) Safety and efficacy (c) Safety and economy (d) Satisfaction or efficacy

(iv) Drugs Enquiry Committee was appointed under the Chairmanship of \_\_\_\_\_\_ in 1931.

(b) Mr. Bathgate

(d) Acharya Prafulla Chandra Ray

(a) Dr. B. Mukharjee

(c) Lt. Col. R. N. Chopra

(v) In 1937, the Government of India	
<ul><li>(a) The Pharmacy Act</li><li>(c) Drugs and Cosmetic Act</li></ul>	(b) Drugs & Magic Remedy
(c) Drugs and Cosmetic Act	(d) Import of Drugs Bill
(vii) Ethics is the study of	
(a) Fundamental legal principles	(b) Rule of action
(c) Moral duties	(d) None
(viii) can prevent the sale of drug at cheaper rate	of substandard quality drugs but cannot prevent selling of
(a) Law	(b) Ethics
(c) Both	(d) None
<ul> <li>(a) Pharmacist should correct it himsel</li> <li>(b) Pharmacist should ask to trainee ph</li> <li>(c) Pharmacist should take a help of pa</li> <li>(d) Pharmacist should ask to doctor</li> <li>(x) Schedule H prescribes</li> <li>(a) The list of drugs to be sold by retain</li> </ul>	narmacist atient  l only on the prescription of RMP ander the supervision of medical practitioner hotropic substances
<ul><li>(a) Write the scope and objective of ph</li><li>(b) Write in detail about Pharmacy Ac</li></ul>	
<ul><li>(a) Write the critical study of the code India?</li><li>(b) Discuss in detail the drug and cosm</li></ul>	e of pharmaceutical ethical drafted by pharmacy council of netic act and the rules there under?
<ul><li>(a) Discuss in detail the drug and magin</li><li>(b) Discuss on Poisons Act 1919?</li></ul>	ic remedy act?
<ul><li>(a) Discuss medical termination of pre</li><li>(b) Write the objective, offences and p</li></ul>	egnancy Act in detail.  bunishment of Narcotic and paychotropic act.
<ul><li>(a) Discuss Principles and Significance</li><li>(b) Write Definitions and silent feature</li></ul>	e of Professional Ethics in detail? es related to retail and wholesale distribution of drugs?
(a) Write short note on Medicinal & T	oilet preparations Act.

Q.2

Q.3

Q.4

Q.5

Q.6

Q.7

- (b) Write short note on Latent Drugs (Price control) act.
- Q.8 (a) Write the procedure for registration as Pharmacist under Pharmacy act 1948? Describe the constitution of Pharmacy Council of India?
  - (b) What are loan licenses and repackaging license? Discuss procedure to get the above licenses? Enrollment No.....

# **Diploma in Pharmacy** Second Year Main Examination, April-2021

**Drug Store & Business Management [DPY205] Time: 3:00 Hrs** Max Marks 80 Note: Attempt any eight questions. Each question carries equal marks. **Q.1** (a) Fill in the blanks: (any 8) Inventory Control is an important part of \_\_\_\_\_ management-A system which ensures the provision of the required quantity of inventories of required quality at the required time with the minimum amount of capital is known (iii) To help \_\_\_\_\_ in taking inventory decisions is one of the objectives of inventory control. (iv) Stock verification sheet is also known as \_\_\_\_\_ sheet. ABC analysis is an important \_\_\_\_\_\_ of inventory control. (v) (vi) ABC analysis is a technique of material control according to . (vii) A high turnover ratio means \_\_\_\_\_ risk of pilferage. (viii) helps the management to know the fast and slow moving material in stock. (ix) \_\_\_\_\_ is the result of various causes such as substandard materials, bad supervision, and carelessness in planning etc. \_\_\_\_\_ is defined as the materials which in the process of manufacture are badly (x) damaged and beyond rectification and thus the goods brought to be disposed off as seconds. 0.1 (b) Multiple choice type questions. (Any 8) In a drug store, the expired drug formulation are called: (a) Scrap items (b) Surplus items (d) None of the above (c) Absolute items In Ideal drugs store, the inventory is: (b) Inadequate (a) In excess (d) At level between excessive and inadequate (c) Meazre (iii) In retail drug store, the medicines are arranged according to:

		(a) Manufacturers (b) Pharmacological actions (c) Alphabetical orders (d) All the above	
	(iv)	License required to start a new retail drug store is issued by:  (a) Drug controller  (b) Drug Inspector  (c) Government analyst  (d) Registrar of state pharmacy council	
	(v)	The minimum qualification to start a retail drugs store is:  (a) D. pharmacy (b) B. pharmacy (c) Graduate with science (d) Any degree	
	(vi)	A person who is interested to start a retail drug store must be:  (a) Pharmacy Degree Holder (b) Registered pharmacist (c) Chemist (d) Druggist	
	(vii)	A chemist shop deals only in drugs andso is an example of: (a) General store (b) single line store (c) Street stall (d) None of the above	
	(viii)	Audit note book is maintained by whom? (a) Client's clerk (b) Auditor (c) Client (d) Audit clerk	
	(ix)	Which of the following concept says that the consumers will favor those products that are available widely at low cost?  (a) Production Concept (b) Selling Concept (c) Product Concept (d) Marketing Concept	
	(x)	Which of the following is not a random sampling method?  (a) Stratified sampling (b) Systematic sampling (c) Cluster sampling (d) Judgment sampling	
Q.2	<ul><li>(a) What do you understand by a business organization?</li><li>(b) Explain various types of channels of distribution those a business organization adopts for sale and marketing.</li></ul>		
Q.3	<ul><li>(a) Explains elements of economics and management.</li><li>(b) Explain ABC analysis and VED analysis of inventory control.</li></ul>		
Q.4		Vrite a short note on trial balance. Vrite a short note on balance sheet.	
Q.5	<ul><li>(a) What is cash book? What are its types?</li><li>(b) Explain the forms of business organization.</li></ul>		
Q.6		Vrite a short note on general ledger book. Yrite a short note on general ledger book. Yrite a short note on general ledger book.	
Q.7		xplains the technique of analyzing financial statements.  That do you understand by finance planning?	

- Q.8 (a) What are the essential qualifications for a competent technical staff to be appointed at a drug
  - (b) Write the steps to be followed for recruitment of the pharmacist at a drug house?

Enrollment No.....

		Diploma in Pharmacy	
	Secon	d Year Main Examination, April-2021	
	Hos	pital & Clinical Pharmacy [DPY206]	
Time:	3:00 Hrs	Max Marks 80	
Note:	Attempt any five quest	tions.	
	<b>Each question carries</b>	equal marks.	
Q.1	(a) Fill in the blanks with	h suitable words. (Any 8)	
(i)	Type I ADR reactions is		
	(a) Caused when T-cells bind to a specific antigen		
	(b) Caused by tissue injur	y	
	(c) IgE mediated		
	(d) Caused by cytotoxic a	ntibodies	
(ii)	Average time period for p	hase II clinical trials study is	
		(b) Upto few month	
	(c) Upto Two year	(d) Upto several year	
(iii)	drug can cause lactic acidosis.		
	(a) Metformin	(b) Pioglitazone	
	(c) Repaglinide	(d) Glibenclamide	
(iv)	The incidence ADR is highest in		
	(a) Children	(b) Elderly	
	(c) Women	(d) Men	
(v)		nsive therapy should be avoided in type-1 diabetes mellitus	
		(b) High dose diuretics	
	(c) Centrally acting	(d) calcium channel blockers	
(vi)	is an examp	ole of Category X drugs	
	* *	(b) Ranitidine	
	(c) Lorazepam	(d) Paracetamol	
(vii)	is indicated	in agitation and restlessness in the elderly, despite the high incidence of	
	extrapyramidal side-effect		
	(a) Prochlorperazine	(b) Clozapine	
	(c) Haloperidol	(d) Flupentixol	
(viii)		licated during pregnancy due to its Teratogenicity.	
	(a) Folic acid	(b) Calcium	
	(c) Retinol	(d) Iron	

(ix) commonly reported ADR of diuretic lass of drugs.		
(a) Hypokalemia	(b) Alopecia	
(c) Skin disorder	(d) Rhinitis	
causes pharmacodynamics drug interaction.		
•	(b) Stimulation of metabolism	
(c) Alteration of pH of GIT.	(d) Interactions at receptor site	
(b) MCQs (Any 8)		
Rheumatic arthritis is diagnosed with the help of		
(a) ESR	(b) ESR and rheumatic factor	
(c) Haemoglobulin	(d) Uric acid	
The objectives of PTC is-		
-	(b) Education	
•		
•		
	(b) The strength of medication	
(c) Instruction to the patient	(d) All of the above	
Surgical gauze is checked for the	ne following standard-	
	(b) Thread per stated length	
` /	(d) All of the above	
• • •	(b) Photosensitivity	
(c) Hepatotoxicity	(d) None of these	
	infection disease which one of these blood examination is more	
•		
	(b) Cholesterol	
(c) Uric acid	(d) Haemoglobin	
Administration of oxygen in ne	oborns causes	
(a) Blood loss	(b) Ototoxicity	
(c) Impaired sight	(d) None of these	
High incidence of continuous dan	a consideration is a consistent with the theorem involving	
• •	<ul><li>(b) Antithyroid</li><li>(d) None of these</li></ul>	
(c) restosterone	(d) None of these	
Repeated administration of barb	piturates causes -	
(a) Vitamin A deficiency	(b) Folate deficiency	
(c) Vitamin C deficiency	(d) None of the above	
When structurally different dry	a sive some clinical mosult it is called	
•		
	<ul><li>(b) Clinical equivalence</li><li>(d) None of these</li></ul>	
(c) Diocquivalence	(a) None of these	
(a) Explain Out patient service?		
	(a) Hypokalemia (c) Skin disorder  ——————————————————————————————————	

- (b) Write a note on In patient service?
- Q.3 (a) Classify poison, Enlist steps in general treatment of poisoning?
  - (b) Explain brief about hospital pharmacy?
- Q.4 (a) Define management and health delivery system in India?
  - (b) Give the detail about the drug distribution system in hospital?
- Q.5 (a) Explain the term drug abuse and drug habituation. How is the treatment of drug abuse done?
  - (b) Write application of computer in retail pharmacy establishment?
- Q.6 (a) Briefly write on Large Volume Parentral Solution (LVPs)
  - (b) Explain Drug Price control Act in detail
- Q.7 (a) Describe in detail medical Termination of pregnancy act1971.
  - (b) Discuse the provisions of the Act that are applicable to the Sale & Labelling of Homeopathic Medicines.
- Q.8 (a) Explain the term drug abuse and drug habituation. How is the treatment of drug abuse done?
  - (b) What is Hepatitis? Give its types and symptoms.