BOARD DIPLOMA EXAMINATION (Inst), (ER-20) AUGUST-2022

DPH-FIRST YEAR EXAMINATION PHARMACEUTICS

Time:3 Hours Total Marks:80

PART-A

5x6=30

Instructions: (1) Answer any six questions

- (2) Each question carries five marks
- (3) Answers should be brief and straight to the point and shall not exceed five simple sentences
- 1 Explain the stages of Pharmaceutical packaging with examples. Write about types, advantages and disadvantages of glass as packaging material.
- Define the term "Extraction". Write about any four methods of extractions. 2
- 3 Explain the methods for prolonged release of drugs from tablets.
- 4 Discus about the stability emulsions.
- 5 List out the methods of preparation of ointments. Explain the methods.
- Describe the design, construction and plant layout of a production unit. 6
- 7 Write notes on the following:
 - (a) Transdermal drug delivery system
 - (b) Mucoadhesive drug delivery system.

PART-B

3x10=30

- **Instructions:** (1) Answer any ten questions
 - (2) Each question carries three marks
 - (3) Answers should be brief and straight to the point and shall not exceed five simple sentences
 - Describe the history of Indian Pharmacopoeia 8
 - 9 Define 'Preservative' and classify preservatives with examples.
 - Define 'Lyophilisation'. Discuss about principle involved in lyophilisation. 10
 - Mention the manufacturing defects tablets. 11
 - Differentiate between flocculated and deflocculated suspensions. 12
 - 13 Define displacement value and explain its importance.
 - 14 What are the different methods of mixing of powders.
 - What are the general requirements of parenteral dosage forms? 15
 - Write a brief note on BCG vaccine. 16
 - 17 What is the purpose of calibration?
 - What are the advantages of novel drug delivery systems? 18

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Instr	uctions: (1) Answe	•	l			
		question carries one mai				
10		rs should be single wor	_			
19		t of India was enacted in		(1) 1050		
• •	(a) 1947	(b) 1948	(c) 1949	(d) 1950		
20		owing is a natural preserv				
	(a) Neem Oil	(b) Sodium Chloride	` ′	(d) All of the Above		
21	Which of the following instruments is used for size reduction?					
		er (b) Soxhlet apparatu		(d) Triple roller mill		
22	Which of the following excipients is used ti keep tablet intact after compression?					
	(a) Glidant	(B) Dilurent	, ,	(d) Disntegrant		
23	The solid unit dosage form in which the drug substances are enclosed in a water soluble					
	shell or an envelo	pe is				
	(a) Ointment	(b) Capsule	(c) Tablet	(d) Suppository		
24	A reconstituted lie	quid preparation remains	stable when stored in	the refrigerator for		
	(a) 1 day	(b) 7 to 14 days	(c) upto 28 days	(d) upto 6 months		
25	Liposomal drug ca	arriers are used in the trea	atment of			
	(a) Malaria	(b) Cancer	(c) Diabetes	(d) Hypertension		
26	The powder subst	ance which absorbs mois	ture from atmosphere	called		
	(a) Efflorescent	(b) Hygroscopic	(c) Volatile	(d) None of the above		
27	The lack of ability	The lack of ability to resist infection is called				
	(a) Immunity	(B) Resistance	(c) Susceptibility	(d) Toxicity		
28	Pertusis vaccine is used for immunization of children against					
	(a) Diptheria	(b) Tetanus	(c) Tuberculosis	(d) Whooping cough		
29	Rubber ball mills	are used for blendings of				
30	Enteric coated tab	let disintegrates in	hours in sim	nulated intestinal fluid		
31	The concentration	of sucrose in simple syru	up IP is			
32	Opthalmic prepara	ations should be isotonic	with lachrymal secret	ions to avoid		
33	A vaccine prepared from two are more strains of the same species of bacteria or virus is					
	called					
34	The viscosity of nasal drops should be similar to that of					
35	The concentration of alcohol in elixirs is					
36	The parts of hard gelatin capsules are					
37	Friabilator is oper	ated for	revolutions per n	ninute		
38	The two major co	mponents of borosilicate	glass are			

BOARD DIPLOMA EXAMINATION (Inst), (ER-20) AUGUST-2022

DPH-FIRST YEAR EXAMINATION PHARMACEUTICAL CHEMISTRY

Time:3 Hours Total Marks:80

PART-A 5x6=30

Instructions: (1) Answer any six questions

- (2) Each question carries five marks
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer
- What are NSAID's? Classify them with examples. Give the structure, chemical name, brand names and uses of Aspirin.
- What are Anti-tubercular drugs? Classify them with examples. Give the structure, chemical name and formulations of Isoniazid.
- Define Diuretics and write classification of Diuretics with examples. Write the structure, chemical name, brand names and uses of Frusemide.
- Define antihypertensive drugs and write the classification of antihypertensive drugs with examples. Write the structure, chemical name and uses of propranolol.
- Write the chemical structure, chemical name, brand names and uses of (a) Acetylcholine and (b) Naphazolin
- Define antipsychotics and classify antipsychotics with examples. Write the structure, chemical name, uses and storage conditions of chlorpromazine hydrochloride.
- 7 Define the word'titration'. Classify the. Explain briefly about Redox titrations.

PART-B 3x10=30

Instructions: (1) Answer any ten questions

- (2) Each question carries three marks
- (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.
- 8 Write the principle involved in limit test for chlorides.
- 9 Write the molecular formula, Pharmaceutical formulations, storage and uses of Boric Acid.
- Write the structures of (a) Indole (b) Quinoloine and (c) Thiazole
- Define general anesthetics and write any two general anesthetics drugs with their brand nemaes.
- Write the formulations, storage conditions, brand names and uses of Salbulamol.
- Write the formulations, storage conditions, brand names and uses of Nifedipine.
- Write the formulations, storage conditions, brand names and uses of Acetozolamide.
- 15 Give the structure, storage, brand names and uses of Glibenclamide.
- Write a note on Morphine analogues.
- 17 Give the structure, chemical name and uses of Dapsone.
- 18 Give the structure, uses and storage conditions of Cisplatin.

(2) Each question carries one marks (3) Choose the correct answer or write the correct answer. Regent used in limit test for lead is 19 (a) BaCl₂ (b)AgNO₃(c) Thioglycolic Acid (d) H₂S 20 Indicator used in complexometric titrations is (a) Erichrome Black T (b) Xylenol Orange (c) Mordant Black II (d) All of the Above 21 EDTA is (a) Monodentate (b) Tetradentate (c) Hexadentate (d) Bidentate 22 Hydrogen Peroxide is used as (a) Dentifrice (b) Mouth Wash (c) Antiseptic (d) Antacid Haloperidol belongs to the chemical class of 23 (a) Barbiturate (b) Butyrophenone (c) Benzodiazepines (d) None of the above Phenytoin is used as 24 (a) Anticonvulasant (b) Antidepressant (c) Antipsyhotic (d) None of the above 25 Which of the following is adrenergic antagonist? (a) Epinephrine (b) Dopamine (c) Propronolol (d) Acetyl Choline The antihypertensive drug that inhibit ACE is 26 (a) Nifedipine (b) Ramipril (c) Propronolol (d) Clonidine Example for opioid analgesics is 27 (a) Aspirin (b) Morphine (c) Paracetmol (d) Diclofenac Biguanide derivative of Anti-malarial drug is 28 (b) Cycloguanil (a) Quinine (b) Chloroquine (d) Primaguine 29 Bacteriostatic agent act on bacteria by (a) Killing (b) Stopping the growth (c) Multiply the bacteria (d) Stimulating Which is not an Alkylating agent? 30 (a) Chlorambucil (b) Cisplatin (c) Busulfan (d) Mercaptopurine 31 Which of the following is propionic and derivative? (b) Paracetmol (a) Morphine (c) Ibuprofen (d) Asprin ----- is an ultra short acting barbiturate. 32 33 ----- is used for both epilepsy and aeehythmias. Propofol is a -----34 35 The structure of pyrimidine is -----Al(OH)₃ gel is an example for -----36 37 Deviation from the true value is called ------

Closeness between experimental and true value is called -----

Instructions: (1) Answer all questions

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BOARD DIPLOMA EXAMINATION (Inst), (ER-20) AUGUST-2022

DPH-FIRST YEAR EXAMINATION PHARMACOGNOSY

	HARMACOGNOST		
	Time:3 Hours Tot	tal Marks:80	
	PART-A	5x6=30	
Instruct	tions: (1) Answer any six questions	<i>01</i> 10- <i>0</i> 0	
mon act	(2) Each question carries five marks		
	(3) Answers should be comprehensive and criterion for valua	tion is the content	
	but not the length of the answer	VIOI 10 VIIV VOIIV	
1	Write about the basic principles involved in the Ayurveda and Home	opathic medical system	
2	Define Evaluation. Explain chemical evaluation of crude drugs.	1	
3	Define and classify Tannins and write down its properties, classificat for tannins.	tion, identification tests	
4	Write biological source, chemical constituents and uses of Acacia and	d Opium.	
5	Write biological source, chemical constituents and uses of Silk and C	Coriander.	
6	Write biological source, chemical constituents and uses of Digitalis a	and Colchicum seeds.	
7	Write the organoleptic characteristics and uses of Rauwolfia and Pun	arnava.	
	PART-B	3x10=30	
	Instructions:(1) Answer any ten questions		
	(2) Each question carries three marks		
	(3) Answers should be brief and straight to the point	nt and shall not	
	exceed five simple sentences.		
8	Write the chemical constituents of Hyoscyamus and Ergot.		
9	Write modified borntrager's test for identification of anthraquinone g	glycosides.	
10	Write the biological source of following:		
	(a) Myrrh (b) Aloe (c) Coca		
11	Define crude drugs. Write alphabetical classification of crude drugs v demerits.	with merits and	
12	Name on crude drug belongs to the following family and write its use	es.	
	(a) Labiatae (b) Myrtaceae (c) Meliaceae		
13	Write briefly on systematic study of crude drugs.		
14	Write in brief the food sources that contain carotenoids.		
15	Write diwn the chemical constituents of following:		
	(a) Lavender oil (b) Cinchona		
16	Write morphological characteristrics of following curde drugs.		
	(a) Ispaghula (b) Gelatin		
17	Write about Tridosha siddhanta.		
18	Defien the following:		
	(a) Phytochemicals (b) Nutraceuticals (c) Surgical dressing	gs	

Instructions: (1) Answer all questions (2) Each question carries one marks (3) Answers should be single word or single sentence. 19 The term 'Pharmacognosy' was first used by German scientist Seydler in his book------20 Choose the **correct** crude drug with its pharmacological action. - Datura (a) Antimalarial - Vinca (b) Anti-Cancer (c) Oxytocic - Nux Vomica (d) Antihypertensive - Acacia 21 Ergot contains----- alkaloids. 22 ----- alkaloidal drug is used as antitussive. 23 Podophyllum is belongs to ----- family. (a) Berberidacea (b) Liliaceae (c) Leguminosae (d) Solanaceae 24 Biological source of shark liver oil is -----25 Biological source of Cardamom is (a) Dried flower of Elteria cardamom (b) Dried ripe fruit of Elteria cardamom (c) Dried leaves of Elteria cardamom (d) Dried roots of Elteria cardmom 26 The chemical constituent(s) of Ipecac is / are (a) Emetine (b) Cephaline (c) Psychotrine (d) All of the above What is / are the chief chemical constituent(s) of coffee? 27 (b) Strychnine (c) Emodine (a) Vincristine (d) None of the above 28 ----- glycosides give foam on shaking 29 Inulin is (a) Pre-biotic (b) Pro-biotic (d) Carotenoid (c) Antioxidant 30 ----- pink colour with phloroglucinol and conc.HCl. 31 Gelatin I consists of which of the following protein(s)? (a) Keratin (b) Glutine (c) Both (a) and (b) (d) None of the above 32 Which of the following contains resin used as sedative analgesic and narcotic? (a) Ginger (b) Tolubalsam (c) Male fern (d) Cannabis ----- crude drug is used as antihypertensive and tranquilizer. 33 34 Omega-3-fatty acids reduces the levels of (a) LDL.VLDL (B) HDL (C) Antioxidants (d) Fibrin 35 Lavender oil is obtained from its (a) Leaves (b) Wood (c) Flowering tops (d) Fruit Drugs are adulterated for following except 36 (a) Enhancement of profit (b) Increase its purity(c) For costly drugs(d) Scarcity of crude drug 37 Keller-Killiani test is positive by

(c) Glycosides

(a) Cellulose (b) May or may not be lignin (c) Both (a) and (b) (d) None of the above

(d) Volatile oils

(a) Alkaloids

Fibers are made up of

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(b) Fixed oils

BOARD DIPLOMA EXAMINATION (Inst), (ER-20) AUGUST-2022

DPH-FIRST YEAR EXAMINATION HUMAN ANATOMY AND PHYSIOLOGY

Time:3 Hours Total Marks:80

PART-A 5x6=30

Instructions: (1) Answer any six questions

- (2) Each question carries five marks
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer
- 1 Write the structure of Innominate bone
- Write notes on (a) Blood groups and (b) Importance of RH-factor
- 3 Describe the blood vessels attached to the heart.
- 4 Write the structure and functions of liver with a neat labeled diagram.
- 5 List out the cranial nerves. Write their origin.
- Why is pituitary gland called master gland. Write the secretions and functions of anterior pituitary gland.
- 7 List out the parts of female reproductive system and explain the structure of Ovary.

PART-B

3x10=30

Instructions:(1) Answer any ten questions

- (2) Each question carries three marks
- (3) Answers should be brief and straight to the point and shall not exceed five simple sentences
- 8 Define the terms 'Anatomy and Physiology'.
- 9 Write the structure and function of mitochondria.
- Draw a neat labeled diagram of neuron.
- 11 Write the mechanism of clotting of blood.
- Write the composition of lymphatic fluid.
- Draw a neat labeled diagram of heart.
- What are the functions of respiratory system?
- Write a note on neuromuscular junction?
- Define and classify nervous system.
- Define the terms 'glaucoma', 'xerophthalmia' and 'myopia'.
- Explain the physiology of urine formation.

Instructions: (1) Answer all questions

(2) Each question carries one marks

(3) Answers should be single word or single sentence.

19	Myology is the study	of				
	(a) Muscles	(b) Bones	(c) Cartilage	(d) All of the above		
20	The term used to cell eating is					
	(a) Exocytosis	(b) Phagocytosis	(c) Pinocytosis	(d) Osmosis		
21	Which of the following is / are the striated muscles?					
	(a) Cardiac muscle	(b) Smooth muscle	(c) Skeletal muscle	(d) Both (a) and (c)		
22	Human skeleton is made up of a total of					
	(a) 201 bones	(b) 206 bones	(c) 198 bones	(d) 105 bones		
23	Hemoglobin is present in which cells?					
	(a) Erythrocytes	(b) Leucocytes	(c) Platelets	(d) None of the above		
24	Lymphatic fluid is ric	h in				
	(a) Iron	(b) Antibodies	(c) Neutrophils	(d) Basophils		
25	The normal blood pre	ssure of a healthy pers	on is			
	(a) 100/70 mm of Hg	(b) 140/80 mm of Hg	(c) 120/80 mm of Hg	(d) 160/80 mm of Hg		
26	The lungs are located	in the				
	(a) Cranial cavity	(b) Thoracic	(c) Abdominal cavity	(d) Pelvic cavity		
27	Bile salts are essentia	l to digest				
	(a) Proteins	(b) Carbohydrates	(c) Vitamins	(d) Fats		
28	A ligament joins					
	(a) Bone with bone (b) Bone with tendon (c) Muscle with bone (d) Tendon with ligament					
29	Nervous system is divided into					
	$(a) \ Central\ nervous\ system (b) \ Peripheral\ nervous\ system (c) Both (a) and (b) (d) None\ of\ the\ above$					
30	Loss of sense of smel	l is called				
	(a) Anosmia	(b) Anuria	(c) Anoxia	(d) None of the above		
31	A high level of creating	nine in blood indicates				
	(a) Kidney failure	(b) Heart failure	(c) Liver failure	(d) None of the above		
32	Anti-diuretic hormone	e is				
	(a) Oxytocin	(b) Vasopressin	(c) Gastrin	(d) None of the above		
33	Formation and maturation of Ovum is					
	(a) Spermatogenesis	• •	(c) Ovulation	(d) Fertilization		
34	Exchange of gases in the lungs is called					
35	Small intestine contains numerous fingers like projections called					
36	Junction between neuron and effector is called					
37	Constriction of pupil is called as					
38	Gland is located at the base of the brain in the sphenoid bone.					

BOARD DIPLOMA EXAMINATION (Inst), (ER-20) AUGUST-2022

DPH-FIRST YEAR EXAMINATION SOCIAL PHARMACY

	SOCIAL PHARMACY	Z .
	Time:3 Hours	Total Marks:80
	PART-A	3x10=30
	Instructions :(1) Answer any ten questions	
	(2) Each question carries three marks	
	(3) Answers should be brief and straight	to the point and shall not exceed
	five simple sentences	
1	Define social pharmacy and mention its scope.	
2	Write about public health system in India.	
3	What are the effects of pharmaceutical pollution on environ	
4	Name three water borne diseases and their causative agents	
5	Write a note on infant milk substitute.	
6	Write a note on functions and deficiency disorders of Thian	nine
7	What are the ill effects of junk foods?	
8	What are the clinical features of leprosy and name any two	drugs used to treat leprosy?
9	Define the terms morbidity, mortality and isolation.	
10	State the objectives of cancer control programme.	
11	What do you mean by pharmacoeconomics?	
	PART-A	5x6=30
	Instructions:(1) Answer any six questions	
	(2) Each question carries five marks	
	(3) Answers should be comprehensive	and criterion for valuation is the
	content but not the length of the an	nswer
12	Discuss the role of pharmacist in public health.	
13	Define immunity and classify different types of immun	nity.
14	Explain the hormonal methods of contraceptives.	•
15	What are the genetically modified foods? Mention the	advantages and disadvantages of
	genetically modified foods.	
16	Mention the names of parasites that cause Malaria. Wr and treatment of Malaria.	ite about symptoms, complications

Write notes on causative agent, epidemiology, clinical manifestations and preventive

Write about revised national tuberculosis control program and DOTS strategy.

17

18

measures for the disease Cholera.

Instructions: (1) Answer all questions

(2) Question carries one marks

(3) Answers should be single word or single sentence.

19	The factors that affect various aspects of health are considered as				
	(1) Indicators of health (b) Protectors of health (c) Determinants of health (d) All of the above				
20	Which of the following is not determinant of health?				
	(a) Environment (b) Heredity (c) Life – Style (d) Pathogenesis				
21	Which of the following two hormones present in combined pill?				
	(a) Dopamine and serotonin (b) Prolactin and oxytocin (c) Eastrogen and Progesterone				
	(d) Eastrogen and testosterone				
22	Which of the following is source of surface water?				
	(a) Wells (b) River (c) Springs (d) None of the above				
23	Which of the following is not a fat soluble vitamin?				
	(a) Vit-A (b) Vit-B (c) Vit-D (d) Vit-E				
24	Example of fortification of food is				
	(a) Salt-Iodine (b) Orange Juice-Sugar (c) Milk-Water (d) All of the above				
25	Which of the following is an example of dietary fiber?				
	(a) Cellulose (b) Beta glucan (c) Pectin (d) All of the above				
26	Triple vaccine MMR gives protection against the disease				
	(a) Measles (b) Mumps (c) Rubella (d) All of the above				
27	Which of the following contagious disease is not an air borne infection?				
	(a) Measles (b) Mumps (c) Rubella (d) AIDS				
28	Hansen's disease is commonly known as				
	(a) Leprosy (b) Syphilis (c) Gonorrhoea (d) Trachoma				
29	Anti-retroviral therapy is given in which disease?				
	(a) Dengue (b) Chikungunya (c) AIDS (d) Filariasis				
30	DPT vaccine is a not a preventive vaccine against				
	(a) Dengue (b) Whooping cough (c) Tetanus (d) Diphtheria				
31	Which of the following disease is not an arthropod borne disease?				
	(a) Dengue (b) Asthma (c) Cholera (d) Chikungunya				
32	Which of the following is not a nutrition related national health programme?				
	(a) National vitamin A prophylaxis programme (b) National nutritional anaemia prophylaxis				
	programme (c) national special nutrition programme (d) National AIDS contro programme				
33	ICDS stands for				
	(a) International Children Development Society (b) Indian Children Development Society				
	(c) Integrated Children Development Service Scheme (d) None of the above				
34	Which of the following expenses are not generally covered under insurance policy?				
	(a) Hearing aids (b) Naturopathy (c) Contact lenses (d) All of the above				
35	The foods which are derived from organisms whose genetic material is modified in a way that	ıt			
	does not occur naturally is called				
36	The process of deliberate introduction of one or more micronutrients to certain foods in order to				
	boost intake of micronutrients is called				
37	H_1N_1 is the causative organism for the disease				
38	Mantoux test is done to identify a disease				