

ER20-PH-11T

8001

BOARD DIPLOMA EXAMINATION (Inst.), (ER-20)

AUGUST-2022

DPH - FIRST YEAR EXAMINATION

PHARMACEUTICS

Time: 3 hours [Total Marks: 80

PART—A

5×6=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.
- **2.** Define the term 'Extraction'. Write about any four methods of extraction.
- **3.** Explain the methods for prolonged release of drugs from tablets.
- **4.** Discuss about the stability emulsions.
- **5.** List out the methods of preparation of ointments. Explain the methods.
- **6.** Describe the design, construction and plant layout of a production unit.
- **7.** Write notes on the following:
 - (a) Transdermal drug delivery system
 - (b) Mucoadhesive drug delivery system

/8001 1 [Contd...

PART—B 3×10=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.** Describe the history of Indian Pharmacopoeia.
- **9.** Define 'Preservative' and classify preservatives with examples.
- **10.** Define 'Lyophilisation'. Discuss about principle involved in Lyophilisation.
- **11.** Mention the manufacturing defects in tablets.
- **12.** Differentiate between flocculated and deflocculated suspensions.
- **13.** Define displacement value and explain its importance.
- **14.** What are the different methods of mixing of powders?
- **15.** What are the general requirements of parenteral dosage forms?
- **16.** Write a brief note on BCG vaccine.
- **17.** What is the purpose of calibration?
- **18.** What are the advantages of Novel drug delivery systems?

- **Instructions:** (1) Answer **all** question.
 - (2) Each question carries **one** mark.
 - (3) Answers should be single word or single sentence.
 - 19. The Pharmacy Act of India was enacted in the year
 - (a) 1947
 - (b) 1948
 - (c) 1949
 - (d) 1950
 - 20. Which of the following is a natural preservative?
 - (a) Neem oil
 - (b) Sodium chloride
 - (c) Honey
 - (d) All of the above
 - Which of the following instruments is used for size reduction? 21.
 - (a) Silverson mixer
 - (b) Soxhlet apparatus
 - (c) Ball mill
 - (d) Triple roller mill
 - Which of the following excipients is used to keep tablet intact after compression?
 - (a) Glidant
 - (b) Diluent
 - (c) Binding agent
 - (d) Disintegrant

23.	The solid unit dosage form in which the drug substances are enclosed in a water soluble shell or an envelope is
	(a) ointment
	(b) capsule
	(c) tablet
	(d) suppository
24.	A reconstituted liquid 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 carriers are used in the treatment of
	(a) malaria
	(b) cancer
	(c) diabetes
	(d) hypertension
26.	The powder substance which absorbs moisture from atmosphere is called
	a) efflorescent
	(b) hygroscopic
	(c) volatile
	(d) None of the above
/8001	4 [Contd
	x

27 .	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 blending of
30.	Enteric coated tablet disintegrates in hours in simulated intestinal fluid.
31.	The concentration of sucrose in simple syrup IP is
32.	Ophthalmic preparations should be isotonic with lachrymal secretions to avoid
33.	A vaccine prepared from two or 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 operated for revolutions per minute.
38.	The two major components of borosilicate glass are



5

[Contd...



7.

/8001

8001

BOARD DIPLOMA EXAMINATION, (ER-20)

JANUARY-2023

DPH - FIRST YEAR EXAMINATION

PHARMACEUTICS

Time: 3 hours [Total Marks: 80

PART—A

Instr	uctions:	(1) Ansv	ver <i>any</i> six qu	aestions.			
		(2) Each	question car	ries five ma	rks.		
			wers should ation is the co	_			
1.	Define the	e term Ph	armacy. Write	a brief note	e on Pharmac	cy as a care	er. 2+3=5
2.			ical Aids with oneir sources.	examples. D	escribe the co	olouring age	nts 3+2=5
3.	What is M Mixer hor	_	ve a note on th ??	e constructi	on and worki	_	son .+2+2=5
4.	Discuss tl	he various	s additives use	ed in the for	mulation of t	ablets.	5
5.	Classify e	mulsifyin	g agents. Exp	lain them ir	n brief.		2+3=5
6.	Define Oi	ntment. C	Classify ointme	ent bases w	ith examples		2+3=5

Write a note on the formulation of parenteral preparations.

1

PART—B

Instructions: (1) Answer **ten** questions.

/800	1 2	[Contd
18.	Write a note on National Formulary of India.	3
17.	What are Prodrugs? Give examples.	2+1=3
16.	Write a brief note on quality control in pharmaceuticals.	3
15.	Define the terms Toxoid, Vaccine and Sera.	1+1+1=3
14.	How will you dispense powders containing potent drugs?	3
13.	Differentiate between liniments and lotions.	1½+1½=3
12.	What are the qualities of ideal suspension?	3
11.	State the advantages and disadvantages of capsules.	1½+1½=3
10.	Write about wet granulation method.	3
9.	Define filter aids. What is their importance in filtration?	1+2=3
8.	Write a note on 'rubber' as a packaging material and its dis	sadvantages. 2+1=3
	(3) Answers should be brief and straight to the proof not exceed five simple sentences.	point and shall
	(2) Each question carries three marks.	

Instructions: (1) Answer **all** questions.

- (2) Each question carries **one** mark.
- 19. The latest edition of the 'Indian Pharmacopoeia' was published in
 - (a) 2018
 - (b) 2019
 - (c) 2020
 - (d) 2021
- 20. Ampules are
 - (a) single-dose containers
 - (b) multi-dose containers
 - (c) light resistant containers
 - (d) well-closed containers
- **21.** Artificial sweetener is
 - (a) Sucrose
 - (b) Sucralose
 - (c) Mannitol
 - (d) Dextrose
- **22.** The principal forces involved in Cyclone separator are
 - (a) centripetal forces
 - (b) centrifugal forces
 - (c) tangential forces
 - (d) adhesive forces

/800	1	4	[Contd
	(d)	All of the above	
	(c)	temperature not exceeding 25 °C	
	(b)	2 - 8 °C	
	(a)	8 - 15 °C	
27.	Th	e syrups are stored at	
	(a)	Lactose	
	(c)	PEG	
	(b)	Povidone	
		Sorbitol	
26.		ft gelatin capsules shell is made elastic by the addition of	
	(d)	Caramel	
	(c)	Cochineal	
	(b)	Indigo	
		Titanium dioxide	
25.	Wh	nich of the following colorants is derived from animal source?	
	(d)	Dhanvantari	
	(c)	Chanakya	
	(b)	Sushrutha	
	(a)	Charaka	
24.	Th	e Father of Surgery is	
	(d)	disintegrant	
	(c)	binding agent	
	(b)	glidant	
	(a)	diluent	

23. The excipient used to increase the bulk of tablets is

28.	Which of the following topical preparations may show thixotropic behaviour?
	(a) ointment
	(b) paste
	(c) gel
	(d) suppository
29.	Soft gelatin capsules are also known as
30.	The concentration of alcohol in elixirs
31.	Theobroma oil is also known as
32.	The dose of the drug can be controlled in aerosols by the help of
33.	are used in eye drops to increase viscosity of the preparation.
34.	is a sterile suspension of one or more strains of Salmonella typh.
35.	is documented evidence that gives high assurance of quality standards.
36.	Vaginal suppositories are also known as
37.	RPVC stands for
38.	Freeze drying is also known as



8001

BOARD DIPLOMA EXAMINATION, (ER-20)

MAY-2023

DPH - FIRST YEAR EXAMINATION

PHARMACEUTICS

Time: 3 Hours [Total Marks: 80

PART—A

5×6=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.** Write a note on formulation of tablets.
- **2.** Define suppositories. Classify suppository bases with examples. 1+4=5
- **3.** Explain the processing steps of parenteral preparations.
- **4.** Discuss in detail about plant layout of a production unit of Pharmaceuticals.
- 5. What is Pharmacopoeia? Explain the salient features of the Indian Pharmacopoeia?
 1+4=5
- **6.** Write a note on the following:
 - (a) Controlled drug delivery modules
 - (b) Implants
- **7.** Discuss briefly on the principle and working of Hammer mill with a neat sketch.

1+4=5

Instructions: (1) Answer any ten questions.

- (2) Each question carries three marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
- **8.** Define Capsules. What are the different sizes of Hard gelatin capsules?
- **9.** Define the following dosage forms (a) Lotions and (b) Liniments.
- **10.** Define Pharmaceutical container. Classify Pharmaceutical containers.
- **11.** Define extraction. Classify extraction methods.
- **12.** Add a brief note on enteric Antioxidants with examples.
- **13.** Write a note on enteric coating and its importance.
- 14. What is Quality control and Quality assurance in pharmaceuticals?
- **15.** Define the terms (a) Emulsion and (b) Suspension.
- **16.** Classify immunological products with examples.
- 17. What are the general requirements of parenteral dosage forms?
- **18.** Give a note on Effervescent granules.

Instructions: (1) Answer the following questions.

- (2) The question carries one mark.
- **19.** Which among the following is **not** an extraction method?
 - (a) Decoction
 - (b) Digestion
 - (c) Ingestion
 - (d) Infusion
- **20.** Which of the excipient provides strength to the granules in order to keep tablet intact after compression?
 - (a) Glidant
 - (b) Diluent
 - (c) Binding agent
 - (d) Granulating agent
- **21.** In capsules, Rotary die process is used for
 - (a) filling of power into capsules
 - (b) filling of liquids into capsules
 - (c) filling of pellets into capsules
 - (d) sorting the filled capsules
- 22. The suppository meant for introduction into vaginal cavity are known as
 - (a) pessaries
 - (b) nasal bougies
 - (c) uretheral bougies
 - (d) ear cones

23.	Dus	ting powders should pass through
	(a)	Sieve no. 120
	(b)	Sieve no. 22
	(c)	Sieve no. 80
	(d	Sieve no. 44
24.	Nasa	al drops are not formulated using oily vehicles because they cause
	(a)	asthma
	(b)	lipid pneumonia
	(c)	allergy
	(d	bleeding
25.	The	solvent used for extraction is known as
	(a)	menstrum
	(b)	marc
	(c)	percolate
	(d	extract
26.		t resistant containers are not used for storge of immunological lucts due to
	(a)	Incompatibility
	(b)	Difficult to visualize the changes
	(c)	Toxic nature
	(d	None of the above
27.		d Manufacturing Practices (GMP) in Pharmaceuticals ensures which ae following parameters?
	(a)	Quality
	(b)	Safety
	(c)	Efficacy *
	(d	All of the above

28.	Targ	rgeted drug delivery can be achieved in cancer chemotherapy through			
	(a)	nanoparticles			
	(b)	prodrugs			
	(c)	buccal strips			
	(d	implants			
29.		Thich of the following dosage forms are clear, sweetened, aromatic, hydro coholic liquids intended for oral use?			
	(a)	Solutions			
	(b)	Syrups			
	(c)	Elixirs			
	(d	Suspensions			
30.	Whi base	ch is the correct statement about desirable properties of ointment e?			
	(a)	It should be inert, odourless and smooth.			
	(b)	It should be compatible with skin with the incorporated medicaments.			
	(c)	It should not retard the healing of the wound.			
	(d	All of the above			
31.	Her	metically sealed containers are also called			
	(a)	light resistant			
	(b)	water proof			
	(c)	air tight containers			
	(d	Both (a) and (b)			
32.	The	efficient size separation process depends on			
	(a)	Particle size			
	(b)	Particle shape			
	(c)	Particle density *			
	(d	All of the above			

33.	Which of the following is a coloring agent?
	(a) Disodium EDTA
	(b) Methyl Paraben
	(c) Saccharin
	(d) Tartrazine
34.	is external monophasic dosage form used to treat acute otitis media.
35.	is the process where glass particles fuse together and form pores between them.
36.	The descriptive material pertaining to any drug or therapeutic agent or preparation included in the pharmacopoeia is known as
37.	In dissolution test, dissolution media is maintained at a temperature of
38.	Ball mill works on the principle of

1+2+2=5



tablets.

8001

BOARD DIPLOMA EXAMINATION, (ER-20)

SEPTEMBER—2023 DPH - FIRST YEAR EXAMINATION

PHARMACEUTICS

		1 117 11 11 11	ICDO IICD		
Time	: 3 Hours]			[Total M	arks : 80
		PA	RT—A		5×6=30
Inst	ructions: (1) Ans	wer <i>any six</i> que	stions.		
	(2) Eac	h question carrie	es five marks.		
	` '			sive and criterion ngth of the answer.	for
1.	Define drying. Ad	d a note on the	principle, cons	struction and workin	g of
	fluidized bed dry	er.			1+4=5
2.	Describe the desi	gn, construction	and plant lay	out of a production ι	ınit. 5
3.	Explain the stage	es of pharmaceut	ical packaging	with examples. Writ	æ
	about types of gla	ass as packaging	material.	_	2+3=5
4.	Define size separa	ation. Add a brie	f note on the	principle, construction	on
	and working of cy			r . ,	1+4=5
5.	Discuss the vario	us additives used	d in formulatio	on of tablets.	5
6.	Define emulsion.	Explain the stat	oility of emuls	ons.	1+4=5
7.	Define the term to	ablet. Write the o	classification a	nd disadvantages of	

PART—B 3×10=30

	(2) Each question carries three marks.	
	(3) Answers should be brief and straight to the point shall not exceed five simple sentences.	and
8.	Write about wet granulation method for the preparation of tablets.	3
9.	Classify Novel Drug Delivery Systems with examples.	3
10.	Define nasal drops. Classify them w10ith suitable example.	1+2=3
11.	List out any three official Pharmacopoeias and add a note on the importance of Pharmacopoeia.	3
12.	Define capsule. What are the different sizes of hard gelatin capsules	s? 1+2=3
13.	Write about methods of preparation of effervescent granules.	3
14.	Define preservative and classify preservatives with examples.	1+2=3
15.	Differentiate between paste and ointment.	3
16.	Write a short note on BCG vaccine.	3
17.	Define the terms toxoid, vaccine and sera.	+1+1=3
18.	Write the differences between syrups and elixirs.	3

Instructions: (1) Answer any ten questions.

Instructions: (1) Answer **all** questions.

- (2) The question carries **one** mark.
- (3) Answer should be single word or single sentence.
- **19.** The Pharmacist Registration Certificate is issued by
 - (a) Indian Pharmacy Council
 - (b) State Pharmacy Council
 - (c) Central Drug Standard Control Organization
 - (d) AICTE
- 20. Artificial sweetener is
 - (a) sucrose
 - (b) saccharin
 - (c) mannitol
 - (d) dextrose
- **21.** Pharmacy practice in India is governed by which Act?
 - (a) IPA, 1948
 - (b) AICTE Act, 1987
 - (c) D & C Act, 1940
 - (d) D & C Rules, 1945
- **22.** Ampoules are
 - (a) single dose containers
 - (b) multi-dose containers
 - (c) light resistant containers
 - (d) well closed containers

23.	Benzoic acid is			
*	(a)	colouring agent		
	(b)	flavouring agent		
	(c)	sweetening agent		
	(d)	a preservative		
24.		tablet which is placed under the skin by minor surgery in order to ase the drug is called		
	(a)	liposomes		
	(b)	nanoparticles		
	(c)	prodrugs		
	(d)	implants		
25.		ich of the following is a concentrated or nearly saturated solution of rose in purified water?		
	(a)	Solutions		
	(b)	Syrups		
	(c)	Elixirs		
	(d)	Suspensions		
26.	Gela	atin is the hydrolysed product of		
	(a)	pectin		
	(b)	tannin		
	(c)	shellac		
	(d)	collagen		
27.	Idea	al characteristic(s) of NDDS is/are		
	(a)	cost effective		
	(b)	medical-optimum		
	(c)	to increase the bioavailability		
	(d)	All of the above		

28.	Evaluation of the parental preparation is done by		
*	(a)	sterility test	
	(b)	leakage test	
	(c)	clarity test	
	(d)	All of the above	
29.	Which method is not used for the preparation of suppositories?		
	(a)	Hand-rolling method	
	(b)	Compression method	
	(c)	Fusion method	
	(d)	Levigation method	
30.	The	suppository meant for introduction into nasal cavity are known as	
	(a)	pessaries	
	(b)	nasal bougies	
	(c)	uretheral bougies	
	(d)	ear cones	
31.	Which of the following is used as bactericide and fungicide in eye drop		
	(a)	Benzalkonium chloride	
	(b)	Phenol	
	(c)	Mercuric chloride	
	(d)	Sodium metabisulphite	
32.	Suppositories meant for insertion into the vaginal cavity are		
	(a)	pessaries	
	(b)	granules	
	(c)	suppositories	
	(d)	injectables	

5

/8001

[Contd...

33.	The	concept of displacement value is associated with
*	(a)	ointment
	(b)	paste
	(c)	gel
	(d)	suppository
34.		parison of results of sample with those produced by a traceable dard is nothing but
	(a)	testing
	(b)	validation
	(c)	calibration
	(d)	qualification
35.	GMI	P ensures which of the following parameters?
	(a)	Quality
	(b)	Safety
	(c)	Efficacy
	(d)	All of the above
36.	PCI	stands for
37.		_ is used to prevent the oxidation of the product.
38.	Wha	at is triple point?
