Tanta University, Faculty of Pharmacy, Department of Pharmaceutical Technology Final Exam for Second Level Students Course Title: Pharmaceutics-I Code: PT 302 Time allowed: 2 Hours **Total Marks: 50** Total pages: 6 17/3/2021 Term: First

You are provided with 100 MCQs together with answers for each question. You need to select one answer for each question and blacken the corresponding circle in the attached bubble sheet

	attached bubble sheet.				
1	1. Which of the following statements is TRUE regarding oral route?				
	a. Suitable in case of vomiting	b. Not suitable for self-administration			
	c. Absorption is slow and may be incomplete	d. Suitable if patient is unconscious			
	2. Which of the following formulations CANNOT be ap	plied to the eye?			
	(a) liniments	b. ointments			
	c. solutions	d. suspensions			
	3. Liquid preparations for rectal administration are cal	lled			
	a. collodions	(b) enemas			
	c. pessaries	d. suppositories			
	4. Insufflations are introduced into which of these body	cavities?			
	a. Nose	b. Throat			
	c. Ear	(d.)All of the above			
	5. Which of the following is NOT TRUE regarding the	transdermal route?			
	(a.)One of the topical routes of administration	b. Suitable for potent drugs			
	c. Suitable for short T1/2 drugs	d. Used for systemic effect			
	6. Parenteral suspensions are contraindicated to be give	en by route.			
	a. subcutaneous	b. intramuscular			
	(c) intravenous	d. None of the above			
	7. Which of the following is NOT TRUE regarding har	d gelatin capsules?			
	a. formed of 2 pieces	b. used for solid medicaments			
	(c)The capsule is formed, filled, and sealed in one	manufacturing operation			
	d. its content is in the form of powder, spheres or c				
8. Route by which steroids are injected into joints is termed					
	a. Intracardial	b. Intrathecal			
	c. Intraocular	d Intra-articular			
	Questions (9 to 12) can be answered using the following	dosage forms. Choose one answer for			
each sentence and blacken the corresponding circle in the answer sheet:					
	a. Linctus b. Elixir c. Syr				
	9. Concentrated aqueous solution of sugar (sucrose).	"			
10. Pleasantly flavored clear liquid oral preparation of potent or nauseous drugs containing h					
proportion of ethanol. (b)					
11. Viscous liquid oral preparations usually containing high proportion of syrup or glycerol where the street of the syrup or glycerol where t					
have demulcent effect.					
	12. Fine dispersion of droplets of an oily liquid in an aque	ous liquid (aqueous phase) which acts as			
	the continuous phase. (d)	• • • • • • • • • • • • • • • • • • • •			
	13. Which of the following is NOT TRUE regarding na	asal drops?			
	a. The drug may be antihistaminic, vasoconstrictor	r or decongestant			
	(b) Drugs cannot be absorbed from the nasal mucos	sa to reach the systemic circulation			
	c. Oily nasal drops are prohibited due to damage of	of cilia			
	d. Prolonged use of vasoconstrictor leads to rebou				
	14. Pessaries include:				

a. Molded pessaries

c. Vaginal capsules (soft gelatin)

b. Compressed (Vaginal tablets).

(d.) All of the above

a. Parenteral preparations	ne starila?			
- in chiciai preparations	b sterile?			
c. Irrigation solutions	b. eye drops	ř.		
Questions (16 to 19) can be enguered	d. a&b ©All of th	e above		
for each sentence and blacken the correct	Questions (16 to 19) can be answered using the following dosage forms. Choose one answer a. liniments b. Pastes d. a&b e All of the above for each sentence and blacken the corresponding circle in the answer sheet:			
	the answer snee	t:		
a. liniments b. Pastes	c. Collodions	d Latione		
16. Liquid preparations to be applied on the skin in forming protective film after evaporation.	n which pyroxylin is dissolv	ed in volatile 1:		
forming protective film after evaporation.	On dissolv	ed in voiathe fiquid		
17. Liquid preparations for application to skin with 18. Fluid or semisolid preparations for application to skin with the skin w	hout friction			
oily solution	to skin with rubbing The			
18. Fluid or semisolid preparations for application to skin without friction oily solutions or emulsions.				
19. Topical semisolid preparations	19. Topical semisolid preparations			
20. Bulk powders contain drugs	proportions of fine powderl	(0)		
a. Potent	(2)			
c. Both a&b	(b.) Non-potent			
21. What is USP?	d. None of the abov	re		
a. The United States Pharmacology				
C. The United States Pharmacopoeia	b. The United State	s Pharmacy		
22. The prescription must be	d. The United State	S Pharmacautical		
22. The prescription must be received and check a. Physician	ed by the	s i natinaceuticais		
c. Nurse	b. Patient			
23 The arms is a	^			
23. The superscription is represented by a symbol	d. Harmacist			
24. The inscription part of the prescription conta	ine	d. Ph		
C. ICEINIAIION number on 1 D	b. Patient name, Age			
Dari of prescription	on d. Signature, Addres	S		
a. Directions to the pharmacist	§			
C. Directions to the notional	b. Directions to the p	patient		
- Via a years our could works 11 41	d. None of the above			
26. A 2 years old child weighs 11.4 kg. The adult of the correct dose for the child using Young's rule is a. 46.816 mg	lose for Drug "X" is 280m	g. Accordingly		
a. 46.816 mg	S	s. recordingly,		
27. When two or more dead b. 40 mg	c. None of the above,	it ie		
27. When two or more drugs are used in combinat action, this phenomenon is known as	tion to increase the pharms	notestast		
action, this phenomenon is known as	ense the pharma	cological		
(a. Synergism	b. Tolerance			
c. Potentiation	d Antagania			
28. A term used to indicate an absolute prohibition certain stated conditions.	d. Antagonism			
certain stated conditions.	r to the use of a drug in pro	esence of		
a. Precaution				
c. Warning	b. Contraindication			
29. Which of the following is NOT TRUE regardin a. Defined as reduced effect of drug due to	d. None of the above			
a. Defined as reduced effect of drug due to rep b. Tolerance occurs command	g drug tolerance?			
b. Tolerance occurs commonly in such drugs e c. Normal sensitivity may be regained by stopp time.	.g. antihistaminics, narcotic	analgesics.		
time.	ong drug administration for	a period of		
d. The development of tolerance can be minimized to the development of tolerance can be minimized. The verbal and the development of tolerance can be minimized to the development of tolerance can be minimized.		Pariod Of		
highest effective days	ized by initiating drug theray	w with the		
30. The volume of homes	5 18 dicia	, with the		
30. The volume of benzalkonium chloride solution (50% w/v) needed to prepare 200ml of				
dilute benzalkonium chloride solution (20% w/v) is	·····	pare 200ml of		
a. 0.8ml b. 8ml (c.)	00 1	-C41 1		
	d. None	of the above		

Questions (3	1 to 32) can be answered	
R/	Squill oxymel	300ml
	Camphorated opium Tr	300ml
	Syr. Tolu	300ml
31. The prev	ious formula is	
(a)Lin	ctus	b. Elixir
	d emulsion	d. syrup
32. The amo	unt of Squill oxymel requ	ired to prepare 1200ml of the above formula is
a. 225		(b.)400ml
c. 120	00ml	d. None of the above and it is
33. What is t	the amount of Pot. Perma	ng. required to prepare 1000 ml of 1 in 10000 solution?
a. 10r		(b.)100mg
c. 100	00mg	d. None of the above
34. What is t	the volume of an oral liqu	id medicine, available as 400 mg drug X/5 mL, which is
required for	a 5-day supply for a pati	ent prescribed a dose of 800 mg drug X twice daily?
a. 50r		(b.)100ml
c. 150		d. 200ml
35. What is	the volume of cetrimide 4	0% w/v solution required to prepare 200ml of 1 in 10
cetrimide so		
a. 0.5	ml	b. 5ml
C. 50	ml	d. None of the above
Questions (3	36 to 37) can be answered	using the following formula:
R/	Coal tar	
	Starch	20 g
	Zinc oxide	20 g X u
,	Soft paraffin	
36. The abo	ve formula is	<u> </u>
a. Cr	eam	b. Ointment
c. Lii	niment	(d) Paste
37. The amo	ount of Zinc oxide require	d to prepare 25gm of the previous formula is
a. 0.5	_	(b.)gm
c. 15		d. None of the above
		Talse questions. Please assign (A) for the true statement
and (B) for	the false statement in the	corresponding bubble sheet.
38. Sublingu	al route involves drug adm	inistration under the tongue providing rapid systemic drug
	1	_
39. Orally a	dministered antacids requir	e systemic absorption to give its action.
40. Irritant	drugs that cannot be admir	istered subcutaneously can be given by the intramuscular
route.)	
41. Inhalatio	on route is useful for anaest	hetic gases and volatile liquids.
42. The phy	sician order form is used for	or hospital outpatient. (b)
43. Oral tran	ismission of medication or	ler by prescriber is permitted except for controlled drug
44. The age	of a patient above 12 years	is a legal requirement and will help the pharmacist to check
the dose.	6)	
45. Bulk pre	scriptions are written for o	ne named patient on NHS prescription form.
		an Young's rule for child dose calculation.
47. A lower	parenteral dose of a drug is	required than the oral dose to achieve the same blood levels
of drug.	P)	
48. Therape	entic index is the ratio betw	een a drug's minimum effective dose and minimum toxic

49. In order to reach the stead	y state of plasma drug concentration	n, the dosing time interval should			
be longer than the time require	ed for complete elimination of the p	previous dose.			
	hets each containing 500mg diaze	pam, we need to make 1 in 100			
dilution of the drug with lacto	se. (9)	NYL CERDE			
51. All of the following are c	considered disadvantages of soluti	on EXCEPT:			
a. Bulky during transpor	- Control Control	e highest stable dosage form.			
	ntially needed for administration.	27 64 1			
	ociated with its package.	e. None of the above			
52. Water has a superior ex	traction property.				
a. True		b. False			
	rtion remaining during water pur	rification:			
	ty due to heating of MgCl ₂				
	one of its major components.				
c. It should be discard	led.				
d. Both a and c		e. All of the above			
	n optimum method used for prepa				
a. True		b. False			
55. Talc added during form	ulation of aromatic water, is used	for preparation of:			
	pe via distillation method.				
	atic type via distillation method.				
	pe via solution method.	N. Cat. 1			
	atic type via solution method.	e. None of the above			
56. Concerning micelles for	mation:				
a. They are self-aggre	egates composed in the bulk of med	ium.			
b. They should be for	med after exceeding the point of cri	itical micelle concentration.			
	depends on the structure of surfacta	ant and nature of vehicle.			
d. Both a and c		e. All of the above			
	wered used the following choices:				
a. Hydrotropy		Cosolvency			
c. Micellar solubiliza		lone of the above			
	ferent mechanisms for improving				
drugs. Which one is repres	ented in the following statements:	? !: b			
57. Solubility of chlorocreso	57. Solubility of chlorocresol is enhanced after addition of 30% sodium benzoate.58. Surfactant is an essential component used for enhancing the solubility of poorly soluble drug.				
58. Surfactant is an essential	component used for enhancing the	solubility of poorly soluble drug.			
59. Water miscible solvent in	n which the drug has a good solubil	ity should be added.			
60. Solubility of sodium phe	nobarbitone is improved after addit	ion of propylene glycol.			
	n solutes can dissolve water insolub	le material via of inter-ionic or			
intermolecular bonds.					
	be answered using the following	choices. The same answer can			
be used for more than one		Florening			
a. Coloring agent	b. Preservative	c. Flavoring agent			
d. Tonicity Contrib		in a solution proporation What			
	ferent types of additives used duri	ing solution preparation. What			
is the role of the following	examples?	64. Amaranth solution			
62. Sodium chloride	63. Butylated hydroxy toluene	67. Sodium metabisulfite			
65. Parabens	66. Compound orange spirit				
	us should be diluted with syrup to	h Folgo			
a. True		b. False			

69. Which of the following mixtures require an auxiliary label "Shake the Bottle Before a. White mixture b. Tr. Benzoin Co c. Bismuth and Chalk mixture d. Creosote mixture 70. Regarding to Lugol's solution: e. All of the above a. Iodine is soluble in water.

b. A soluble complex of KI3 should be formed.

c. KI is the main active constituent. 71. A thirty-six-year-old COVID-19 patient frequently administers his anticoagulant tablet once daily. He started to take two aspirin tablets three times daily due to severe headache. After three days, severe nasal bleeding and some hematomated patches has appeared in his

a. Therapeutic incompatibility with synergistic effect between two administered drugs. b. Therapeutic incompatibility with antagonistic effect between two administered drugs.

c. Physical incompatibility due to precipitation of aspirin.

e. None of the above.

Questions from 72 -76 can be answered using the following choices.

b. Synergism

You are provided with the two types of therapeutic incompatibility, what is the most predicable type that will occur after co-administration the following formulae: 72. Creosote mixture and simple linctus.

73. Chloral hydrate enema and phenobarbitone elixir.

74. Bismuth &chalk mixture and white mixture.

75. Phenobarbitone elixir and stimulant enema.

76. Aminophylline and Cimetidine.

Questions from 77-83 can be answered using the following choices.

d. Immiscibility

b. Insolubility

c. Eutexia

You are provided with different types of incompatibilities, what is the most predicable type 77. Dilution of Creosote with camphor water.

78. Preparation of calcium Carbonate aqueous solution.

79. Reconstitute ceftriaxone vial with ringer's solution.

80. Heavily trituration of menthol and camphor.

81. Addition of talc as lubricant during preparation of Vitamin B₁₂ tablets.

82. Mixing solutions of magnesium sulfate and calcium chloride.

83. Grinding of Salol and thymol in the same mortar.

Questions from 84-86 can be answered using the following statement.

An antiepileptic formula composed from aqueous solution of barbiturate sodium salt and ammonium bromide. After two days, a precipitate has been formed at the bottom of container. 84. This precipitate is composed from:

a. Ammonium barbiturate

b. Ammonium hydroxide

c. Barbituric acid

d. Both a and c

85. This type of incompatibility is:

a. Insolubility

b. pH change

c. Complex formation

d. Double decomposition reaction

86. This incompatibility can be solved by:

a. Addition of surfactant

b. Use gum acacia

c. Change the vehicle

d. Replacement ammonium bromide with sodium bromide

e. None of the above

Q	uestions from 87-91 can be	answered using the following choices.			
	a. Astringent	b. Antispasmodic	c. Purgative		
	d. Anthelmintic	e. Stimulant			
Y	ou are provided with diffe	rent types of enemas. Which one l	as the following active		
in	gredient?	100	•		
	. Tannic acid	88. Glycerin and Caster oil			
89	. Turpentine	90. Black coffee	91. Silver nitrate		
92	. Propylene glycol is an opti		72. On (or man)		
	a. Nasal drops	b. Ophthalmic preparations			
	c. Ear drops	d. Both a and c	e. None of the above		
Q		answered using the following formula			
R/	Chloroxylenol	50 g			
	Pot. Hydroxide	13.6 g			
	Oleic acid	7.5 ml	S.		
	Castor oil	63 g			
	Terpineol	100 ml			
	Ethanol 96%	200 ml	7237		
	Purified water to	1000 ml			
93	. This formula is an example	e for:			
	a. Nasal spray	b. Ear drops	c. Gargles		
	d. Liniments	e. Antiseptic solution	8		
94	. The surfactant in the previous formula composed from reaction between:				
	a. Castor oil and potassin	am hydroxide.			
	b. Oleic acid and potassi				
	c. Terpinol and ethanol	d. No surfactant is formed	e. Both a and b		
95. The surfactant composed in previous question is:					
	a. Potassium recinoleate	b. Potassium Oleate			
			13 18 18 18 18 18 18 18 18 18 18 18 18 18		
96	. The mechanism(s) used in	this formula for enhancing chloroxyle	enol solubility la/arei		
	a. Hydrotropy	b. Micellar solubilization	c. Cosolvency		
	d. Both a and c	e. Both b and c			
Questions from 97- 100 can be answered using the following choices.					
a. Explosion b. Effervescence c. Hygroscopicity					
	d. Efflorescence e.	None of the above			
Yo	ou are provided with differ	ent powder properties should be car	efully considered during		
po	wder formulation, which or	e is represented in the following exan	oples:		
97	97. Copper sulfate pentahydrate 98. Physostigmine Hcl				
99. Mixture of tartaric acid and sodium bicarbonate					
	0. Mixture of potassium perm		A STATE OF THE STA		
	•		一种		

-good luck