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First Year Pharmacy PHARMACEUTICS - I (101)

Time: Three Hours Maximum Marks: 80

Note: i) Attempt total *six* questions. Question No.1 is compulsory. From the remaining questions attempt any *five*.

ii) Illustrate your answer with neat sketches wherever necessary.

1. Attempt any five:

 $5 \times 2 = 10$

- a) Why drugs are not given in their original pure state?
- b) Name different types of materials used for making of containers.
- c) Define the term "Size separation".
- d) Give the list of equipments used for mixing of semi-solids.
- e) Write the Daray's law equation.
- f) Enlist the different types of maceration process.
- 2. Attempt any two questions:

 $2 \times 7 = 14$

- a) Calculate the quantity of sodium chloride required to prepare 2 pint of 1 in 200 solution.
- b) Find the concentration of sodium chloride required to make a 1% solution of Boric acid, iso-osmatic with blood plasma. (Given: The freezing point of 1% w/v solution of Boric acid is -0.288°C. The freezing point of 1% w/v solution of sodium chloride is -0.576°C).
- c) Find the proportion of dextrose needed to form a solution iso-osmatic with blood plasma.
- 3. Explain construction, working and application for any two of the following: $2\times7=14$
 - a) Cutter mill
 - b) Cyclone separator
 - c) Filter leaf
 - d) Sublimation process

S/2019/1943 *P.T.O.*

Simple syrup I.P. is more sweet than simple syrup U.S.P.

Water is not the choice of menstruum for extraction of active

4. Give reasons (any four):

 $4 \times 3\frac{1}{2} = 14$

	con	etituente from plant materi	alc		
c)		1		nulation of	
C)		_	indicated for the form	ididition of	
d)	-		e from pyrogen.		
e)				maceration	
	pro	cess for Unorganised drug	gs.		
f)	Sub	plimation process.			
Wri	Write note on any two of the following: $2 \times 7 = 14$				
a)	Sol	vents used in extraction pr	rocess		
b)	Ste	am distillation			
c)	Ap	plication of drying			
Atte	Attempt any two: $2 \times 7 = 14$				
a)	Ad	vantage and Disadvantage	es of Tablets.		
b)	Des	scribe briefly manufacturing	ng of Compressed Table	ets.	
c)	Manufacturing, packaging and storage of soft gelatin capsules.				
. Attempt any two questions:					
a)	Cla	Classify briefly methods of sterilisation. Describe mechanical			
	me	thods of sterilisation.			
b)	Classify types of Immunity.				
c)	How are antitoxin differs from antiserum? Write in brief about				
	Dip	ohtheria antitoxin.			
a)	Match the Column 'A' against Column 'B'. 3½				
		Column 'A'	Column 'B'		
	i)	Glidant	1) Lactose		
	ii)	Diluent	2) Talc		
	iii)	Moist heat sterilisation	3) Culture media		
	iv)	Dry heat sterilisation	4) Tablets		
	v)	Weight variation	5) Only injections		
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	e) f) Writal b) c) Attac a) b) c) Attac a) b) c)	c) Whoph oph oph oph oph oph oph oph oph oph	c) White soft paraffin is contra ophthamic ointments. d) Parenteral preparation must be Marc is not pressed and final vorprocess for Unorganised drug f) Sublimation process. Write note on any two of the followal Solvents used in extraction problems and distillation control of drying Attempt any two: a) Advantage and Disadvantage by Describe briefly manufacturincy Manufacturing, packaging and Attempt any two questions: a) Classify briefly methods of somethods of sterilisation. b) Classify types of Immunity. c) How are antitoxin differs from Diphtheria antitoxin. a) Match the Column 'A' against Column 'A' i) Glidant ii) Diluent	ophthamic ointments. d) Parenteral preparation must be from pyrogen. e) Marc is not pressed and final volume is adjusted during process for Unorganised drugs. f) Sublimation process. Write note on any two of the following: a) Solvents used in extraction process b) Steam distillation c) Application of drying Attempt any two: a) Advantage and Disadvantages of Tablets. b) Describe briefly manufacturing of Compressed Tablet. c) Manufacturing, packaging and storage of soft gelation Attempt any two questions: a) Classify briefly methods of sterilisation. Describe methods of sterilisation. b) Classify types of Immunity. c) How are antitoxin differs from antiserum? Write in Diphtheria antitoxin. a) Match the Column 'A' against Column 'B'. Column 'A' Column 'B' i) Glidant i) Lactose ii) Diluent 2) Talc iii) Moist heat sterilisation 3) Culture media iv) Dry heat sterilisation 4) Tablets v) Weight variation 5) Only injections	

b)	Fill	Fill in the blanks: 3½			
	i)	When a drug is extracted by sealing at a particular pressur the process is called	re		
	ii)	The liquids-boils when its is equal to the atmospheric pressure.	ıe		
	iii)	Vacuum dryer is modified form of still.			
	iv)	In moist heat sterilisation, the minimum holding time for sterilisation of injection of 121°C is	or		
c)	Sta	State whether True/False. 3½			
	i)	1 dessertspoonful = 8 mL			
	ii)	Powders is sterilized by moist heat sterilisation.			
	iii)	Fractional distillation is used for the separation of twimmiscible liquids.	/O		
	iv)	Friability test limit for uncoated tablet is less than 0.8%.			
d)	Def	Define the following terms: 3½			
	i)	Chewable tablets			
	ii)	Picking and sticking			
	iii)	Enteric coated capsule			
	iv)	Toxin and Toxoids			

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