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Enrollment No.....



Faculty of Pharmacy
End Sem (Odd) Examination Dec-2019
PY3CO03 Pharmaceutics - I

Programme: B. Pharma.

Branch/Specialisation: Pharmacy

Duration: 3 Hrs.

Maximum Marks: 75

Note: All questions are compulsory. Internal choices, if any, are indicated.

- Q.1
- Give any four types of oral dosage form. 2
 - Separation of concentrated emulsion is a phenomenon of _____. 2
 - For ideal suspension, the sedimentation volume should be _____. 2
 - Define physical incompatibility with example. 2
 - Titanium dioxide is commonly used as _____ in cream. 2
 - Give the names of any four semisolid preparations. 2
 - Give any two difference between hygroscopic powder and eutectic mixture. 2
 - Give the names of any two excipients used in liquid dosage form with examples. 2
 - Give any four common criteria used for the determination of the correct paediatric dose. 2
 - Define proof spirit. 2

- Q.2 Attempt any two:
- Define the term prescription and discuss its various parts with an example. What are the common errors in the prescription? 10
 - Discuss the advantages of liquid dosage forms. Write a note on solubility enhancement techniques. 10
 - Discuss the various factors affecting posology. 5
 - Classify the powders discussing their advantages. 5

P.T.O.

- Q.3 Attempt any seven: Two questions from each section is compulsory.

Section - A

- Define suspensions. What are the stability problems of suspensions? 5
- Classify emulsions. Discuss the tests for the identification of emulsions. 5
- Define syrups and elixirs. Discuss the preparation of lotions and liniments. 5

Section - B

- Define suppositories. Discuss the method of preparation of suspensions. 5
- What is displacement value? Discuss the evaluation of suppositories. 5
- Discuss therapeutic and chemical incompatibility with examples. 5

Section - C

- Discuss the factors influencing dermal penetration of drugs. 5
- Write a note on various excipients used in semi-solid dosage forms. 5
- Discuss the preparation of ointments and gels. 5

Marking Scheme
PY3CO03 Pharmaceutics - I

Q.1	i.	Any four types of oral dosage form.		2
		0.5 mark for each	(0.5 mark * 4)	
	ii.	Separation of concentrated emulsion is a phenomenon of <u>creaming</u> .		2
	iii.	For ideal suspension, the sedimentation volume should be <u>less than one</u> .		2
	iv.	Definition of physical incompatibility	1 mark	2
		Example	1 mark	
	v.	Titanium dioxide is commonly used as <u>opacifying</u> in cream.		2
	vi.	Names of any four semisolid preparations		2
		0.5 mark for each	(0.5 mark * 4)	
	vii.	Any two difference b/w hygroscopic powder and eutectic mixture		2
Q.2		1 mark for each	(1 mark * 2).	
	viii.	Names of any two excipients used in liquid dosage form with examples	1 mark for each	2
			(1 mark * 2).	
	ix.	Any four common criteria used for the determination		2
		0.5 mark for each	(0.5 mark * 4)	
	x.	Definition of proof spirit.		2
		Attempt any two:		
	i.	Definition of prescription	1 mark	10
		Parts with explanation	3 marks	
		Example	2 marks	
		Errors in the prescription	4 marks	
	ii.	Advantages of liquid dosage forms		10
		Three advantages 1 mark for each (1 mark * 3)	3 marks	
		Solubility enhancement techniques		
		Any five methods	7 marks	
	iii.	(a) Any four factors affecting posology.		5
		0.5 mark for each (0.5 mark * 4)	2 marks	
		Explanation of each factor (0.75 mark * 4)	3 marks	
		(b) Classification of powders	2.5 marks	5
		Their advantages	2.5 marks	

Q.3 Attempt any seven: Two questions from each section is compulsory.

Section - A

i.	Definition of suspensions	1 mark	5
	Stability problems of suspensions		
	1 mark for each four problem (1 mark * 4)	4 marks	
ii.	Classification of emulsions		5
	0.5 mark for each (0.5 mark * 3)	1.5 marks	
	Tests for the identification of emulsions.		
	0.5 mark for each (0.5 mark * 3)	1.5 marks	
	Explanation	2 marks	
iii.	Definition of syrups and elixirs (0.5 mark * 2)	1 marks	5
	Preparation of lotions	2 marks	
	Preparation of liniments	2 marks	

Section - B

iv.	Definition of suppositories	1 mark	5
	Method of preparation of suspensions	4 marks	
v.	Definition of displacement value	1 mark	5
	Evaluation of suppositories	1 mark	
	Explanation	3 marks	
vi.	Therapeutic	1.25 marks	5
	Chemical incompatibility	1.25 marks	
	Examples 1.25 marks for each (1.25 mark * 2)	2.5 marks	

Section - C

vii.	Factors influencing dermal penetration of drugs		5
	0.5 mark for factors name (0.5 mark * 4)	2 marks	
	Discussion	3 marks	
viii.	Various excipients used in semi-solid dosage forms		5
	0.5 mark for excipients name (0.5 mark * 4)	2 marks	
	Discussion	3 marks.	
ix.	Name of preparation of ointments and gels.	1 mark	5
	Explanation	4 marks	
