

Total No. of Questions: 3

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Enrollment No.....



Faculty of Pharmacy
End Sem (Odd) Examination Dec-2022
PY3CO19 Industrial Pharmacy -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
- Define polymorphism and name any two drug which exist in polymorphic forms. **2**
 - Discuss the objectives of preformulation studies. **2**
 - Define effervescent and enteric coated tablets. **2**
 - Define glidant with example. **2**
 - Write down the disintegration time for hard and soft gelatin capsules. **2**
 - Explain base adsorption and minim/gram factors in soft gelatin capsules with its importance. **2**
 - Differentiate between small and large volume parenteral. **2**
 - Name two techniques of ampoule sealing. **2**
 - Write any two tests for evaluation of aerosols. **2**
 - Name all the types of glass used in pharmaceutical industry. **2**
- Q.2
- Attempt any two:
- Define preformulation studies and explain the goals and physico-chemical characteristics of drug substances in detail. **10**
 - Describe ideal characteristics of tablets with methods of tablet preparation. Write a note on excipients used in formulation of tablet with example **10**
 - (a) Discuss the BCS classification of drugs with its significance in pharmacy. **5**
(b) Explain tablet coating defects and remedies to overcome them. **5**

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

Section - A

- Write in detail about types of gelatin and production of hard gelatin capsule shell. **5**
- Explain the evaluation parameters for capsules. **5**
- Discuss the process and formulation requirements of pelletization. **5**

Section - B

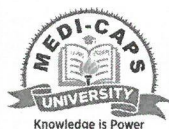
- Give an account on formulation considerations of injectables. **5**
- Explain ophthalmic preparations with formulation additives of eye drop and eye ointments. **5**
- Discuss various quality control tests of parenteral products. **5**

Section - C

- Explain various parts of aerosol packaging with its manufacturing. **5**
- Write a detailed note on types of container and closures in pharmacy. **5**
- Define cosmetics as per Drug and Cosmetic act 1940 and write about the formulation and evaluation of cream. **5**

P.T.O.

Scheme of Marking



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Note: The Paper Setter should provide the answer wise splitting of the marks in the scheme below.

Q.1	i)	- Definition of polymorphism - Name of drug	1 mark 1 mark	2
	ii)	- Two objectives of preformulation studies	1 mark each	2
	iii)	- Definition of effervescent tablet - Definition of enteric coated tablets.	1 mark 1 mark	2
	iv)	- Definition of glidant - Example of glidant	1 mark 1 mark	2
	v)	- Disintegration time for hard gelatin capsules - Disintegration time for hard and soft gelatin capsules	1 mark 1 mark	2
	vi)	- Explanation of base adsorption and minim/gram factors - Importance.	1 mark 1 mark	2
	vii)	- Description of small volume parenteral - Description of large volume parenteral	1 mark 1 mark	2
	viii)	- Two techniques of ampoule sealing	1 mark each	2
	ix)	- Description of two tests for aerosols.	1 mark each	2
	x)	- Four types of glass	0.5 mark each	2
Q.2		Attempt any two:		
	i.	- Definition of preformulation studies - Goals - Physical Parameters- Bulk Characterization, Solubility and Stability analysis - Chemical parameters	1 mark 2 marks 5 marks 2 marks	10
	ii.	- Definition of tablet - Ideal characteristics of tablets - Methods of tablet preparation - Excipients used in tablet formation with example	1 mark 2 marks 3 marks 4 marks	10
	iii.	- Full form of BCS	1 mark	5

		- BCS Classification of drugs with example	3 marks	
		- Significance in pharmacy	1 mark	
		- Any five-tablet coating defect with causes and remedies	1 mark each	5
Q.3		Attempt any seven: Two questions from each section is compulsory.		
		Section – A		
	i.	- Types of gelatin - Production of hard gelatin capsule shell	2 marks 3 marks	5
	ii.	- Any Five evaluation parameters with acceptance limit	1 mark each	5
	iii.	- Define - Process of pelletization - Formulation requirements of pelletization	0.5 marks 2 marks 2 marks	5
		Section – B		
	iv.	- Definition of parenteral - Formulation considerations of injectables (Additives and method)	0.5 mark 4.5 marks	5
	v.	- Formulation additives of eye drop - Formulation additives of eye ointments	2.5 marks 2.5 marks	5
	vi.	- Description of all four quality control tests of parenteral	5 marks	5
		Section – C		
	vii.	- Definition of aerosol - Parts of aerosol packaging - Manufacturing process	0.5 mark 3 marks 1.5 marks	5
	viii.	- Definition and types of containers - Definition and types of closures	2.5 marks 2.5 marks	5
	ix.	- Definition of cosmetic - Formulation of cream - Evaluation of cream	1 mark 2 mark 2 mark	5
