



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2021

Course: Industrial Pharmacy I
Program: BPharm
Course Code: BP502T

Semester :V
Duration : 03 Hours
Max. Marks: 75

Instructions:

SECTION A
Type the answers in test box

(20Qx1M=20 Marks)

S. No.		Marks	COs
Q.1	Sorbitan ester have HLB value. (a) 12.8-14.8 (b) 2.4-5 (c) 1.8-8.6 (d) 1.4-5.6		CO2
Q.2	During clinical trials, the effectiveness of a drug is assessed in human (patients) for first time. (a) Phase 1 (b) Phase 2 (c) Phase 3 (d) Phase 1 and 2.		CO3
Q.3	Which of the following polymer is widely used in film coating of tablets? (a) Acacia (b) Syrup (c) HPMC (d) Starch		CO2
Q.4	The sweetening agent commonly used in chewable tablet formula is (a) Sucrose (b) Mannitol (c) Lactose (d) Saccharin Sodium		CO3
Q.5	Agent used to facilitate the wetting of insoluble solids is (a) Suspending agents (b) Flavoring agents (c) Wetting agents (d) None of these .		CO2
Q.6	Example of synthetic sweetener (a) Glucose (b) Sucrose (c) Sorbitol (d) Aspartane.		CO3
Q.7	Capsule are dosage form contain of drug. (a) Single dosage (b) Unit dosage (c) Double dosage (d) Both (b) and (c)		CO2
Q.8	Basic empty capsule shells are made from a mixture of (a) Sugar (b) Water (c) Gelatin (d) All of above		CO3
Q.9	Which of the following method is used to measure the tablet strength? (a) Thickness (b) Weight Variation (c) Friability (d) Disintegration		CO3
Q.10	Hard gelatin capsule contains of moisture. (a) 9-12% (b) 15-18% (c) 12-15% (d) None of above		CO4
Q.11	The disintegration time of the soft capsules is (a) 15 minutes (b) 30 minutes (c) 45 minutes (d) 60 minutes .		CO4
Q.12	According to IP, the preparation pass the Rabbit Pyrogen test if (a) The group of three rabbits does not exceed 0.6°C (b) The group of three rabbits does not exceed 1.4°C and if the response of individual rabbit is less than 0.3°C (c) The group of three rabbits does not exceed 1.4°C and if the response of individual rabbit is less than 0.6°C (d) The group of six rabbits does not exceed 1.4°C and if the response of individual rabbit is less than 0.6°C.		CO3
Q.13	Which of the following is NOT true about LAL test? (a) It is an in-vivo biological test (b) It is performed using lysates of amoebocytes of the horseshoe crab (Limulus Polyphemus) (c) It is a biochemical test performed in a test tube (d) It is simple, rapid and more sensitive (5-10 times) than rabbit pyrogen test		CO3
Q.14	The role of borax in cold creams is (a) Anti-microbial agent (b) To provide fine particles to polish skin (c) In-situ emulsifier (d) Antioxidant		CO5

Q.15	Lanolin is used in cream as (a) Emollients (b) Humectants (c) Thickening agents (d) None of these .		CO5
Q.16	In shampoo, selenium sulfide is used as (a) Conditioning agent (b) Antidandruff agents (c) Detergent (d) None of these		CO5
Q.17	Which propellant is used for topical pharmaceutical aerosols? (a) Trichloromonofluoro methane (b) Dichlorodifluoro methane (c) Dichlorotetrafluoro ethane (d) Propane .		CO4
Q.18	Propellant used in the aerosol for oral use (a) Propane (b) Oxygen (c) Methane (d) Trichloromonofluoro methane		CO4
Q.19	Aerosols are manufactured by (a) Gas filling (b) Pressure filling (c) Compressed gas filling (d) All the above		CO2
Q.20	Which method is used to determine the nature of propellant? (a) R-F method (b) Gas Chromatography (c) UV (d) None of these		CO2

SECTION B (20 Marks)

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(2Qx10M=20 Marks)

Attempt 2 Question out of 3

Q.1	Explain concept and importance of preformulation. Discuss preformulation parameters for parenteral dosage forms.		CO1																					
Q.2	Prepare the Phenobarbital tablets using following formula <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S.No</th> <th>Chemicals</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Phenobarbital Lactose</td> <td>35.0 mg</td> </tr> <tr> <td>2</td> <td>Lactose fine powder</td> <td>40.0 mg</td> </tr> <tr> <td>3</td> <td>Starch</td> <td>10.01mg</td> </tr> <tr> <td>4</td> <td>Starch paste</td> <td>qs</td> </tr> <tr> <td>5</td> <td>Talc</td> <td>10 mg</td> </tr> <tr> <td>6.</td> <td>Mineral oils</td> <td>5.0mg</td> </tr> </tbody> </table> Comments on all the ingredients in the formula. Describe the methods for preparation and characterization?	S.No	Chemicals	Quantity	1	Phenobarbital Lactose	35.0 mg	2	Lactose fine powder	40.0 mg	3	Starch	10.01mg	4	Starch paste	qs	5	Talc	10 mg	6.	Mineral oils	5.0mg		CO4
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Q.3	A company is interested in formulating a hydrophobic drug for parenteral delivery. Comment on the route of administration, formulation and evaluation parameters required for stable preparation?		CO3																					

SECTION-C (35 Marks)

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(7Qx5M=30 Marks)

Attempt 7 Question out of 9

Q.1	Define stability studies and explain different types of stability studies involved in preformulation studies.		CO1
Q.2	Give details on ideal properties and formulations of Lipstick .		CO5
Q.3	Write a note on equipment involve in the manufacturing of pellets. .		CO3
Q.4	Write a note on environmental contamination control system and aseptic processing.		CO4
Q.5	What is the method of preparation of eye drops and eye lotion?		CO2
Q.6	Write the differences between old and vanishing cream. Enlist and discuss the compositions and formulations of vanishing cream.		CO5
Q.7	Define aerosol. State advantages and disadvantages of aerosol?		CO4
Q.8	State the components of aerosol. Define propellants and types of propellants.		CO3
Q.9	Define packaging of pharmaceutical products with examples. State the functions of packaging. .		CO4