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Roll No. ....

**2041171(041)**

**D. Pharmacy (First Year) Examination,  
April-May 2022**

**PCI (New Scheme)**

**(Part-Time)**

**(Pharmacy Branch)**

**PHARMACEUTICS**

**Time Allowed : Three hours**

**Maximum Marks : 80**

**Note :** Question paper is of three parts i.e. (A), (B) and (C). Part A consists of 7 long answer questions, attempt any six questions. Each of 5 marks. Part B consists of 11 short answer questions, attempt any ten. Each of 3 marks. Part C consists of 20 MCQs each of 1 mark. All questions are compulsory.

**Part-A**

**(Long Answer Type Questions)**

**6×5=30**

**Note :** Attempt any six questions out of 7 questions.

**Each question carries 5 marks.**

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**PTO**

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1. Define Tablets Describe different types of excipients used in tablet.
2. Define Pharmacopeia. Give in brief the history of Indian pharmacopoeia.
3. Write the importance of particle size reduction. Describe the principle, construction and working of ball mill.
4. Define Preservatives. Classify with examples and uses.
5. Define Container. Discuss in detail about the glass and plastic materials used for pharmaceutical containers.
6. Describe the principle, construction and working of double cone mixer.
7. What are the compositions of glass containers? Write the advantages and disadvantages of glass containers.

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**Part-B**

(Short Answer Type Questions) 10×3=30

*Note : Attempt any ten questions out of eleven questions. Each question carries 3 marks.*

8. Discuss defects of tablets occur during manufacturing.
9. Define dosage form and classify them with their suitable example.
10. Write short notes on soft gelatin capsules.
11. Define Vaccines and explain their importance.
12. Define filtration and describe the factors affecting rate of filtration.
13. Describe the principle and working of fluidized bed dryer.
14. Describe the principle and working of soxhlet extraction.
15. Define Emulsion and explain types of emulsion and formulation of emulsion.

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16. Describe in detail about liquid dosage form.
17. Discuss the transdermal drug delivery system.
18. Write short notes on novel drug delivery systems.

**Part-C**

**(Objective Type Questions) 20×1=20**

*Note : Attempt all questions. Each question carries 1 mark.*

**19. Objective Type Questions :**

- (i) Which of the following is not a semisolid dosage form :
- (a) Paste
  - (b) Creams
  - (c) Ointments
  - (d) Suspensions
- (ii) Generally pastes contain :
- (a) High % of insoluble solids

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- (b) Low % of insoluble solids
  - (c) Both
  - (d) None
- (iii) Water soluble bases are known as :
- (a) Greasy ointments bases
  - (b) Greaseless ointments bases
  - (c) Both
  - (d) None
- (iv) Jellies are generally :
- (a) Water-soluble bases
  - (b) Water-insoluble bases
  - (c) Both
  - (d) None
- (v) A suppository is generally intended for use in :
- (a) Rectum
  - (b) Vagina
  - (c) Urethra
  - (d) All the above

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(vi) Rectal suppositories mainly used for the treatment of :

- (a) Constipation
- (b) Hemorrhoids
- (c) Both
- (d) None

(vii) Disadvantages of glass as a packing material are :

- (a) Fragility
- (b) Weight
- (c) Both
- (d) None

(viii) Plastic containers are generally made from the following material :

- (a) Polyethylene
- (b) Polypropylene
- (c) Polystyrene
- (d) All the above

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(ix) Which of the following packaging systems are identified by the FDA?

- (a) Blister pack
- (b) Strip pack
- (c) Bubble pack
- (d) All the above

(x) Unequal distribution of color on a tablet, refers to :

- (a) Picking
- (b) Mottling
- (c) Capping
- (d) Sticking

(xi) Tablets, which are placed between cheek and teeth, are known as :

- (a) Buccal
- (b) Sublingual
- (c) Lozenges
- (d) Troches



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- (xii) Enteric coated tablet is disintegrated in :
- (a) Stomach
  - (b) Liver
  - (c) Intestine
  - (d) Mouth
- (xiii) Chewable tablet contains the following base :
- (a) Mannitol
  - (b) Glucose
  - (c) Lactose
  - (d) None
- (xiv) The role of borax in cold creams is :
- (a) Anti-microbial agent
  - (b) To provide fine particle to polish skin
  - (c) In-situ emulsifier
  - (d) Antioxidant
- (xv) An emulsion consist of :
- (a) One liquid and one solid
  - (b) One liquid and one gas

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- (c) Two liquids
  - (d) Two solids
- (xvi) Milk is an example of :
- (a) Suspension
  - (b) Gel
  - (c) Emulsion
  - (d) Foam
- (xvii) Empty capsule has moisture content in the range of :
- (a) 60%
  - (b) 12%-15%
  - (c) 50%-70%
  - (d) 30%
- (xviii) The advantages of plastic containers over glass containers are :
- (a) Easy formation
  - (b) Resistance to breakage
  - (c) Freedom of design
  - (d) All the above

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(xix) To identify the emulsion type, which of the following tests are conducted?

- (a) Dilution test
- (b) Dye test
- (c) Conductivity test
- (d) All

(xx) The first edition of IP was published in :

- (a) 1965
- (b) 1975
- (c) 1955
- (d) 1985