

[2]

2041171(041)

Part—I

(Multiple Choice Questions)

Note : Attempt all questions. Each question carries 1 mark. 20×1=20

1. Flywheel is used to enhance the motion of particles by one of the following modes :

- (a) Brushing mode
- (b) Centrifugal mode
- (c) Gyration mode
- (d) Oscillation mode

2. Silverson Mixer is used for the preparation of :

- (a) Elixir
- (b) Mouthwash
- (c) Emulsion
- (d) Syrup

[3]

2041171(041)

3. A high efficiency air filter is :

(a) HEPA filter

(b) Final filter

(c) Web filter

(d) Diluents

4. Method that maintains sterility of the product :

(a) Aseptic technique

(b) Bleaching

(c) Filter

(d) All of the above

5. The powder which absorbs moisture from the atmosphere is called :

(a) Hygroscopic powder

(b) Deliquescent powder

(c) Efflorescent powder

(d) All of the above

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6. In mixing of powder which method is used when potent substances are mixed with a large amount of diluents ?
- (a) Spatulation
 - (b) Geometric dilution
 - (c) Trituration
 - (d) Shifting
7. Which of the following are ointment bases ?
- (a) Oleaginous base
 - (b) Absorption base
 - (c) Emulsion base
 - (d) All of the above
8. Which of the following bases is never used in the ophthalmic preparation ?
- (a) White soft paraffin

[5]

2041171(041)

- (b) Hard paraffin
- (c) Liquid paraffin
- (d) Yellow soft paraffin

9. Glidants are used for :

- (a) Improving flow properties
- (b) Improving binding
- ~~(c)~~ Improved drug release
- (d) Improved disintegration

10. What should be the moisture content of a soft gelatin capsule ?

- ~~(a)~~ < 5%
- (b) 6-10%
- (c) 8-10%
- (d) >10%

11. Filtration is a unit operation that is commonly used for collecting :

- (a) Filtrate
- (b) Particulate matter
- (c) Precipitate
- (d) Slurry

12. In liquid dosage form which of the following dosage forms is used for oral administration ?

- (a) Elixirs
- (b) Liniments
- (c) Lotion
- (d) Enema

13. Syrup IP contains % w/w of sugar.

(a) 66.7

(b) 16.6

(c) 60.5

(d) 56.6

14. The third edition of IP was published in :

(a) 1985

(b) 1990

(c) 1966

(d) 1996

15. What is USP ?

(a) The United States Pharmacology

(b) The United States Pharmacy

(c) The United States Pharmacopoeia

(d) None of the above

16. Liniments must not be applied on the
..... skin.

- (a) Broken
- (b) Painful
- (c) Normal
- (d) Swelled

17. Ball mill works on the principle of :

- (a) Impact
- (b) Attrition
- (c) Crushing
- (d) Impact and Attrition

18. The process of separation of insoluble particles from suspension or slurry is called :

- (a) Filtration

- (b) Sieving
- (c) Distillation
- (d) Drying

19. Borosilicate glass is also known as :

- (a) Type I
- (b) Type II
- (c) Type III
- (d) Type IV

20. Metal used for construction of sieve is :

- (a) Stainless steel
- (b) Nylon
- (c) Terylene
- (d) Magnesium

Part-II

(Short Answer Type Questions)

Note : Attempt any *ten* questions out of eleven questions. Each question carries 3 marks. $10 \times 3 = 30$

- ✓1. Define Tablet. Write evaluation test for Tablet.
- ✓2. Describe principle, working and application of cyclone separator.
- ✓3. Write a note on Silverson Emulsifier.
- ✓4. Explain various theories of filtration.
- ✓5. Describe principle, working and uses of freeze dryer.
- ✓6. Define NDDS. Give its classification with example.
- ✓7. Classify the different methods of sterilization.

[11]

2041171(041)

8. What are ointments ? Classify different ointment bases used in the preparation of ointments.

9. Define solid dosage form. Write the importance of dosage form.

10. What are the different types of containers commonly used in Pharmacy ? Write in brief about glass container.

11. Explain the construction and working of a capsule filling machine.

Part-III

(Long Answer Type Questions)

Note : Attempt any *six* questions out of seven questions. Each question carries 5 marks. $6 \times 5 = 30$

1. Define the term Immunity. Explain the types of Immunity.

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- ✓ 2. Explain principle, construction, working and uses of Ball Mill.
- ✗ 3. Define Quality Assurance. Write a note on cGMP.
- ✓ 4. Define Pharmacopoeia. Write a note on history of the Pharmacopoeia of India.
- ✗ 5. Discuss in detail the various steps involved in the manufacture of Tablets.
- ✓ 6. Enumerate the various methods of Sterilization. Discuss any *two* methods in detail.
- ✓ 7. Define Extraction process and classify it.

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