

**D.PHARM.  
FIRST YEAR  
PHARMACEUTICS-I  
ER20-11T**

Duration : 3 hrs.

Full Marks : 80

**(PART-A: Objective)**

Choose the correct answer from the following:

**1×20=20**

1. 1 Quart=\_\_\_\_\_?
  - a. 10 fl ounces
  - b. 40 fl ounces
  - c. 20 fl ounces
  - d. 50 fl ounces
2. 1 teaspoonful =\_\_\_\_\_?
  - a. 4 ml
  - b. 5 ml
  - c. 0.06ml
  - d. None of the above
3. 1 Lb=\_\_\_\_\_kg?
  - a. 2.2
  - b. 4.2
  - c. 2.1
  - d. 4.1
4. Which one is a gaseous sterilising agent?
  - a. Formaldehyde
  - b. Ethylene oxide
  - c. Ethanol
  - d. Both (a) and (b)
5. Schick test is used for\_\_\_\_
  - a. Diphtheria
  - b. Jaundice
  - c. Tuberculosis
  - d. Hepatitis
6. Friability test limit for tablet as per IP?
  - a. 0.1%
  - b. 0.5%
  - c. 1%
  - d. 5%
7. Which is a diluent?
  - a. MCC
  - b. Granule
  - c. Paraben
  - d. Sodium hydroxide
8. Adhesion of granulation material to the die wall?
  - a. Sticking
  - b. Lamination
  - c. Picking
  - d. Mottling
9. Partial or complete separation of the top or bottom part of tablet?
  - a. Capping
  - b. Cracking
  - c. Lamination
  - d. Chipping
10. Milk is an example of
  - a. Emulsion
  - b. Suspension
  - c. Syrup
  - d. Liquid

11. Cold cream is an example of  
a. Emulsion  
b. Foam  
c. Suspension  
d. None of the above
12. Sucrose concentration in syrup?  
a. 66%  
b. 60%  
c. 65%  
d. Both (b) and (c)
13. First edition of Pharmacopoeia was published in?  
a. 1955  
b. 1965  
c. 1950  
d. 1980
14. What is the principle of Hammer mill ?  
a. Impact  
b. Cutting  
c. Impact and attrition  
d. Cutting and attrition
15. Which is principle of Ball mill?  
a. Impact  
b. Cutting  
c. Impact and attrition  
d. Cutting and attrition
16. Which principle of Fluid energy mill?  
a. Impact  
b. Cutting  
c. Impact and attrition  
d. Cutting and attrition
17. Which method is used for size separation?  
a. Pelletization  
b. Sieving  
c. Titration  
d. Blending
18. Particle Separation of cyclone separator depends on?  
a. Particle size and density  
b. Gravitational force  
c. Centrifugal force  
d. None of the above
19. In Clarification, the solid content is not more than  
a. 1%  
b. 10%  
c. 0.1%  
d. None of the above
20. The rate of filtration is \_\_\_\_\_ proportional to the viscosity of the liquid?  
a. Inversely  
b. 60%  
c. Directly  
d. Both (b) and (c)

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**[ PART-B: Short Answers ]**

**[ Answer any ten (10) from the following ]**

[3x10=30]

1. Prepare 600ml of 70% alcohol from 95% alcohol.
2. Calculate the quantity of Dextrose required to prepare 8 Fl oz of a 5% solution.
3. Write advantage and disadvantage of tablet dosage form.
4. Write classification of dosage form.
5. Define the term 'Tyndallisation' and 'Pasteurisation'. What is Sterility?
6. What is distillation? What are the types of Distillation?
7. Write a note on ideal characteristics of filter media.
8. Write factors effecting rate of filtration.
9. What are types of mixtures? Explain.
10. Write a note on features of seventh edition of Indian Pharmacopoeia.
11. Define the term 'Immunity'. Mention the types of immunity.

**[ PART-C: Long Answers ]**

**[ Answer any six (6) from the following ]**

[5x6=30]

1. Write theory, construction and applications of fractional distillation with diagram.
2. Write a note on BCG vaccine (Preparation, Storage, Uses, Dose).
3. Write principle, construction, working and uses of Ball mill.
4. Write a note on Cyclone separator.
5. Write evaluation test of tablets.
6. Write classification of tablets.
7. Write advantage and disadvantage of capsule.

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