

PARUL UNIVERSITY
FACULTY OF PHARMACY
D. Pharm., April-2019 Examination

Year: 1

Date: 16/04/2019

Subject Code: 08600101

Time: 10:00 am to 01:00pm

Subject Name: pharmaceutics-I

Total Marks: 80

Instructions:

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

Q.1 Multiple Choice Questions (MCQs) (1 Mark Each)**(20)**

1. Principle of Hammer Mill
a) Impact
b) Attrition
c) Cutting
d) Revolving
2. Liniment is a _____ dosage form.
a) Liquid
b) solid
c) semisolid
d) gaseous
3. The sterile water for injection has pH _____.
a) 4.5 to 7.5
b) > 7.5
c) < 4.5
d) Neutral
4. The _____ coating of tablet is done to disintegrate it in intestine
a) Film
b) Enteric
c) Sugar
d) Syrup
5. The _____ drug cannot be filled in hard gelatin capsule.
a) Hygroscopic
b) Hydrophobic
c) Anhydrous
d) Thermolabile
6. The efficacy of ball mill is maximum at _____.
a) Low speed
b) High speed
c) 2/3rd of speed
d) Very high speed
7. Containers meant for storage of injectables are made of _____.
a) Lime soda glass
b) Type II glass
c) Neutral glass
d) Type I & II glass
8. In the sieving method, the powder is passed through a set of sieves which are arranged _____.
a) In descending order
b) At random
c) In ascending order
d) One's own choice
9. Distillation is the process of converting liquid into its vapours by _____ and reconvert it again into liquid by _____ the vapours.
a) Condensing, Heating
b) Heating, Convection
c) Heating, Condensing
d) Convection, Condensing
10. The substance that kills bacteria is called _____.
a) Bacteriostatic
b) Disinfection
c) Germicide
d) Bactericide
11. The propeller of propeller mixer rotates at _____.
a) 5000 rpm
b) 8000 rpm
c) 7000rpm
d) 9000 rpm

12. Fluidised bed dryer method is _____ times faster than that of a tray dryer.
 - a) 10
 - b) 15
 - c) 20
 - d) 25
13. The rate of evaporation is directly proportional to _____.
 - a) Time of exposure
 - b) Temperature
 - c) Moisture content
 - d) Surface Area
14. In cyclone separator, the powder is separated depending on its _____.
 - a) Particle size
 - b) Particle size and density of particle
 - c) Density of particle
 - d) Shape of particle
15. The large capsule size is _____.
 - a) 000
 - b) 00
 - c) 0
 - d) 1
16. The substance that increases the rate of filtration is called
 - (a) filter aid
 - (b) Filter Media
 - (c) Slurry
 - (d) Filtrate
17. The disintegration time of uncoated compressed tablet is _____.
 - a) 10 mins
 - b) 15 mins
 - c) 20 mins
 - d) 25 mins
18. The schick test is done to detect the immunity or susceptibility to _____.
 - a) Tuberculosis
 - b) Malaria
 - c) Diphtheria
 - d) Cholera
19. In double maceration method the concentration of alcohol is _____.
 - a) 5-10 %
 - b) 10-15%
 - c) 20-25 %
 - d) 10-20 %
20. The transfer of heat in a solid and a liquid takes place by _____ method
 - a) Conduction
 - b) Convection
 - c) Radiation
 - d) Both A and B

Q.2 Long Answers (any 8 out of 10) (05 Mark Each)

(40)

1. Which fluid is used in ball mill? Give its operation and advantages.
2. Enumerate various test used for quality control of tablets. Write evaluation test for tablets for friability and disintegration time?
3. Write a short note on a) Bhasma b) Churna
4. Differentiate suitably in following; 1) Infusion and Decoction
5. Which fluid is used in fluid energy mill? Give its operation and advantages.
6. Define capsule. Give its advantage & disadvantage. Write composition of hard gelatin capsule shell and soft gelatin capsule shell.
7. Describe the working of hard gelatin capsule filling machine.
8. How many parts of 90%, 60%, 34% and 25% alcohol to be mixed together so as to give 40% alcohol.
9. Write a note on Simple Distillation with figure
10. Define packaging. Write types of packaging

Q.3 Short Answers (2 Mark Each){ Answer any 10}

(20)

1. Define giving examples Asava, Arista, Arka, vati
2. Give the advantages and disadvantages of Tablet.
3. Differentiate suitably the following:
(a) Infusion and decoction
4. Write a short note on BCG Vaccine.
5. Draw a neat and labeled diagram and the working of filter press.
6. Give method of classification used for size separation and explain any one.
7. Write different between hard gelatin capsule shell and soft gelatin capsule shell.
8. Give advantages of colloidal mill, how does it work.
9. Write a short note on: Filter leaf.
10. Draw a neat and labelled diagram of soxhlet apparatus.
11. Classify different methods of sterilization.
12. Define filtration and clarification