

Subject : Pharmaceutics I

Year and Sem : S.Y. B. Pharm (Sem-IV) (Choice based)

Duration : 3hours

Total marks: 80

- N.B. : 1. All questions are compulsory  
2. Figures to right indicate full marks  
3. Draw neat Labelled diagrams wherever necessary.

- Q I Choose appropriate option for following multiple choice-based questions. 20**
- 1 Which of the following properties of a particle significantly affects the physical, chemical and biological properties of the drug? 1
- a refractive index
  - b odour
  - c colour
  - d surface area
- 2 When cumulative percent frequency on a probability scale is plotted against logarithm of the particle size, 50 percent on the probability scale gives the powder particle diameter of 1
- a arithmetic mean
  - b arithmetic mode
  - c geometric mean
  - d harmonic mean
- 3 Sieving method is used for size distribution analysis of powder. The disadvantage of this method is 1
- a agglomerates can be identified
  - b attrition of powder is possible
  - c large number of sieves are required
  - d tedious and time consuming
- 4 Every dosage form is a combination of drug and different kind of non-drug components called... 1
- a Excipients
  - b Non-Additive
  - c New chemical entity
  - d Active pharmaceutical ingredient
- 5 In syrup the concentration of sugar according to IP is 1
- a 69% W/W
  - b 66.7 % W/W
  - c 77 % W/W
  - d 65 % W/W
- 6 High angle of repose of granules indicates 1
- a Bulk density of granules
  - b Porosity of granules
  - c Roughness of granule surface
  - d Smoothness of granule surface
- 7 Elixirs are 1
- a Hydro alcoholic liquid
  - b Aqueous
  - c Viscous
  - d Semi solids
- 8 -----is used as a throat paint vehicle 1
- a Syrup
  - b Water

- c Glycerine  
d Solutions  
9 Which of the following is absorbable suture? 1  
a Silk  
b Linen  
c cotton  
d PLGA
- 10 Catgut is prepared from submucosal layer of the intestine of 1  
a Cat  
b Human being  
c Sheep  
d Rabbit
- 11 Which of the following is a clotting factor 1  
a Plasma  
b Fibrinogen  
c Immunoglobulin  
d Serum
- 12 60% of plasma protein is 1  
a Globulin  
b prothrombin  
c Albumin  
d fibrinogen
- 13 Treated Soda Lime Glass is 1  
a Type IV  
b Type III  
c Type II  
d Type I
- 14 The package that directly comes into contact with formulation directly is 1  
called as  
a Primary package  
b Secondary package  
c Primary and secondary package  
d Tertiary package
- 15 Use of formulations made up of numerous plants referred as... 1  
a Galenicals  
b Parenteral  
c Plant Vehicles  
d Generics
- 16 The c in cGMP stands for 1  
a consistent  
b commitment  
c content  
d current
- 17 Amorphous forms shows 1  
a Poor solubility  
b Good solubility  
c Long range order  
d crystallinity
- 18 The first edition of IP was published in 1  
a 1965

- b 1975
- c 1955
- d 1985
- 19 The "Pharmacy Act" came in force in 1
  - a 1947
  - b 1948
  - c 1949
  - d 1950
- 20 Who is the father of medicine... 1
  - a Ebers
  - b Hippocrates
  - c Egyptian
  - d Pontus

**QII Answer any one question. 12**

- 1 a Give importance of Micromeritics in pharmacy. Explain any one method of particle size determination. 6
- b Explain liquid filling methods in large scale manufacturing of liquid dosage forms. 6
- 2 a Explain in detail any one solubilization technique. Differentiate between Lotions and Liniments. 6
- b Explain any one equipment used in powder mixing. 6

**QIII Attempt any four questions from 1 to 5 48**

- 1 a Give a note on IP 2018 6
- b Write the importance of Quality Assurance in the Pharmaceutical Industry. Discuss Asava and Arista formulations. 6
- 2 a What do you mean by Primary packaging? Discuss in brief types of Glass as packaging material. 6
- b Explain Albumin and gamma globulin preparations. 6
- 3 a Give an account of packaging materials for liquid dosage forms. 6
- b Enlist the methods to prepare syrup and write in detail any two methods. 6
- 4 a Explain the techniques for determination of particle surface area. 6
- b Define Car's index and give its significance. Elaborate on dry syrup formulations. 6
- 5 a Elaborate on collection and storage of whole human blood. 6
- b Classify sutures. Write in brief about manufacturing of Catgut. 6

\*\*\*\*\*