

B.Pharm. CBCS Pattern Semester-V
BP502T - Industrial Pharmacy-I

Time : Three Hours



GUG/W/23/13184

Max. Marks : 75

Notes :

1. All questions are compulsory.
2. Illustrate your answers wherever necessary with the help of neat sketches.

1. Multiple Choice Questions.

20x1

=20

- i) The particle size of disperse phase in suspension varies between
 - a) 0.5 to 5.0 μm
 - b) 8 to 10 μm
 - c) 100-200 μm
 - d) 0.5-1mm
- ii) If Precipitated chalk is used in formulation of Tooth pastes as -----
 - a) Foaming agent
 - b) Humectant
 - c) Abrasive
 - d) Preservative
- iii) Cold fill process cannot be used for -----
 - a) Alcoholic solutions
 - b) Organic solutions
 - c) Aqueous solutions
 - d) Ethanolic solutions
- iv) Isoelectric point of Type B gelatine is
 - a) Between 7 and 9
 - b) 10
 - c) Between 4.7 and 5.3
 - d) Between 12 and 15
- v) ----- test is performed by using Tag Open Cup (TOC) apparatus.
 - a) Flame Projection
 - b) Flash point
 - c) Foam stability
 - d) Spray pattern
- vi) Dried corn starch is mixed with granules for the purpose of-----
 - a) Lubrication
 - b) Whiteness
 - c) Disintegration
 - d) Binder
- vii) Type III glass is also known as -----
 - a) Soda lime glass
 - b) Treated soda lime glass
 - c) Borosilicate glass
 - d) General purpose soda lime glass
- viii) Cam tracks are used in tablets for ----
 - a) Feeding the granules
 - b) Guiding movement of punch
 - c) Adjust shape
 - d) Compress the granules
- ix) The process in which liquid droplet is converted into solid spherical particle by using liquid nitrogen is called -----
 - a) Cryopelletization
 - b) Microencapsulation
 - c) Peptization
 - d) Spheronization
- x) Uneven distribution of the colour on the surface of the coloured tablet_-----
 - a) Mottling
 - b) Chipping
 - c) Picking
 - d) Cracking

- xi) Implantation test is performed on the rabbit for evaluation of ----- containers.
- Plastic
 - Glass
 - Aluminium
 - Tin
- xii) Flow rate of granule from the hopper can be improved by adding of -----
- Binder
 - Glidant
 - Disintegrant
 - Lubricant
- xiii) A High efficiency particulate air filter remove particle upto-
- 0.3 micron
 - 0.1mm
 - 5 micron
 - 0.1 micron
- xiv) Concentration of solids in ophthalmic suspension should be less than ---
- 30%
 - 5%
 - 15%
 - 10%
- xv) Self stability test is performed to evaluate -----
- Rubber closure
 - Plastic container
 - Plastic closure
 - Glass container
- xvi) ----- radiations of sun light are responsible for skin damage
- UVA (320-400nm)
 - UVC (100-290nm)
 - UVB (290-320nm)
 - UVD (400-500nm)
- xvii) Hausners ratio is calculated by -----
- H.R. = Tapped density / Bulk density
 - H.R. = Poured density / Tapped density
 - H.R. Bulk density / True density
 - H.R. = Bulk density / Void volume
- xviii) The main use of surfactant in shampoo is to-
- Remove sebum
 - Produce foam
 - Remove dirt
 - All of these
- xix) Which of the following is most effective sunscreen?
- PABA
 - Titanium dioxide
 - Ferric Oxide
 - Methyl Salicylate
- xx) Which of the following propellant is used for topical pharmaceutical aerosol?
- Trichloro monofluoro methane
 - Dichlorodifluoro methane
 - Propane
 - Dichlorotetrafluoro ethane

2. Solve **any two**.

**10x2
=20**

- Give a detail note on hard gelatin capsules.
- Define tablets. Discuss the formulation and manufacturing methods of tablets.
- Write the evaluation and quality control tests of Aerosols.

3. Solve any seven.

**5x7
=35**

- a) Write in short about the evaluation of Liquid orals official in Pharmacopoeia.
- b) Give an account on processing problem of tablet coating.
- c) Define preformulation studies and give their goal and objectives.
- d) Discuss in detail the ingredients used in the formulation of lipsticks.
- e) Describe glass as packaging material.
- f) Discuss the formulation considerations of ophthalmic dosage form.
- g) What are pyrogens? Discuss the pyrogen test for injectables.
- h) Give a brief note on pellets.
- i) Write a note on Aseptic processing.
