



Notes : All questions are compulsory.

- 1. Multiple Choice questions. 1x20  
=20**
- 1) Type III glass is also known as -----
    - a) Soda lime glass
    - b) General purpose soda lime glass.
    - c) Borosilicate glass
    - d) Treated soda lime glass
  - 2) Which apparatus is used to determine flash point of aerosol product:
    - a) Coulter counter
    - b) Tag open cup apparatus
    - c) Rheometer
    - d) Osmometer
  - 3) Percentage of oily phase is vanishing cream is
    - a) 50%
    - b) 20-25%
    - c) 40-60%
    - d) 10-15%
  - 4) The direction “To be used within 30 days after first opening” is given for
    - a) Suppositories
    - b) Mixture
    - c) Paste
    - d) Eye drops
  - 5) An injection inserted directly into artery is known as -----
    - a) Intra-arterial
    - b) Inter-arterial
    - c) Extra-arterial
    - d) Intravenous
  - 6) Which of the following is not pelletization process?
    - a) Agitation
    - b) Compaction
    - c) Sieving
    - d) Globalization
  - 7) Which of the following is type of capsule.
    - a) Hard gelatine
    - b) Soft gelatine
    - c) Both a & b
    - d) None
  - 8) Dry gum method is also known as
    - a) Continental method
    - b) English method
    - c) Bottle method
    - d) Forbes method
  - 9) Adhesion of tablet material to die wall is called
    - a) Mottling
    - b) Sticking
    - c) Packing
    - d) Capping

- 10) According to USP, Sparingly soluble means the parts of solvent required for one part of solute is
- |             |                |
|-------------|----------------|
| a) 30-100   | b) 10-30       |
| c) 100-1000 | d) less than 1 |
- 11) Which of the following is used as Vulcanizing agent in Manufacture of rubber closure.
- |            |                           |
|------------|---------------------------|
| a) Sulphur | b) Activated carbon black |
| c) Talc    | d) Steric acid            |
- 12) Storage condition for pharm aerosol is
- |                |                |
|----------------|----------------|
| a) Below 120°f | b) Below 90°f  |
| c) Below 10°f  | d) Below 100°f |
- 13) Lip glass is
- |   |
|---|
| a) Liquid lipstick used to color lips             |
| b) Adhering liquid                                |
| c) Lipstick used to protect lips from dry whether |
| d) Liquid that give shine to lips                 |
- 14) Concentration of solid in ophthalmic suspension should be
- |                  |                  |
|------------------|------------------|
| a) Less than 10% | b) Less than 30% |
| c) Less than 5%  | d) Less than 15% |
- 15) Which of the following can be used as solvent for parenteral
- |                       |                     |
|-----------------------|---------------------|
| a) Dimethyl acetamide | b) PEG400           |
| c) Benzyl benzoate    | d) All of the above |
- 16) Ball growth phase is also known as -----
- |                            |                      |
|----------------------------|----------------------|
| a) Abrasion transfer phase | b) Coalescence phase |
| c) Layering phase          | d) Nucleation phase  |
- 17) Disintegration time of soft capsule is
- |            |            |
|------------|------------|
| a) 60 min. | b) 15 min. |
| c) 30 min. | d) 5 min.  |
- 18) For stable emulsion phase volume ratio is
- |          |          |
|----------|----------|
| a) 52/48 | b) 26/74 |
| c) 74/26 | d) 48/52 |
- 19) Which of the following tablet is placed under the tongue to dissolve?
- |                      |                  |
|----------------------|------------------|
| a) Sublingual tablet | b) Buccal tablet |
| c) Lozenges          | d) Troches       |
- 20) ----- is the ratio of mean residence time to the absorption time
- |                      |                          |
|----------------------|--------------------------|
| a) Absorption number | b) Dissolution number    |
| c) Dose number       | d) Intrinsic dissolution |

- 2.** Long answer questions solve **any two**. **2x10**  
**=20**
- a) Define polymorphism. Explain various method for characterization of polymorph in detail.
  - b) Write in detail various component used in formulation of solution?
  - c) Write in detail note on production of Hard Gelatine Capsule shell.
- 3.** Short answers questions solve **any seven**. **7x5**  
**=35**
- a) Explain method of formulation of emulsion.
  - b) Write a note on defects after tablet coating.
  - c) Discuss Quality Control test for Parentals.
  - d) Define Preformulation and write a note on BCS classification system.
  - e) Write a note on Aseptic processing.
  - f) Discuss in detail ingredients used in formulation of lipstick.
  - g) Explain pyrogen test for injectable.
  - h) Explain Sugar coating in details.
  - i) Explain in detail chemical properties of drug substance.

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