

Q.11 Which of the following is an external factor influencing consumer buying behaviour?

- Ans
- ☐ 1. Attitude
 - ☐ 2. Personal motivation
 - ☐ 3. Perception
 - ☒ 4. Economic changes

Q.12 Which combination of biological factors must be considered together when designing a controlled drug delivery system for oral use?

- Ans
- ☒ 1. Gastrointestinal motility and enzyme activity
 - ☐ 2. Tablet weight and shape
 - ☐ 3. Capsule size and taste
 - ☐ 4. Storage temperature and humidity

Q.13 Which of the following concentration range of sucrose acts as a self preservative in monophasic liquid dosage forms?

- Ans
- ☐ 1. 50-55%
 - ☐ 2. 40-45%
 - ☐ 3. 20-30%
 - ☒ 4. 60-85%

Q.14 Which statement best describes an advantage of biphasic systems over monophasic systems?

- Ans
- ☐ 1. Have no risk of microbial growth
 - ☐ 2. Do not need flavoring agents
 - ☒ 3. Can deliver insoluble drugs
 - ☐ 4. Are always clear solutions

Q.15 Which symptom is commonly associated with acute myocardial infarction?

- Ans
- ☐ 1. Intermittent cough
 - ☐ 2. Frequent urination
 - ☒ 3. Severe chest pain
 - ☐ 4. Fever

Q.16 Which of following processes is required for clarifying injectable solutions by removing submicron contaminants?

- Ans
- ☐ 1. Gravity sedimentation tank
 - ☐ 2. Drying oven at high temperature
 - ☐ 3. Slow-speed mixer with filter paper
 - ☒ 4. Super centrifuge operating at maximum safe rotational speed

Q.17 A patient with significant weight loss due to cancer is started on an appetite stimulant. Which of the following drugs, a progestational agent, is most appropriate for this indication?

- Ans
- ☐ 1. Orlistat
 - ☒ 2. Megestrol acetate
 - ☐ 3. Lorcaserin
 - ☐ 4. Naltrexone

Q.18 What is the effect of adding a small amount of strong acid to a buffer solution of acetic acid and sodium acetate?

- Ans
- ☐ 1. The pH drops sharply to acidic value
 - ☐ 2. The pH remains exactly the same
 - ☒ 3. The pH settles near its original value
 - ☐ 4. The pH increases significantly

Q.23 Which of the following is NOT typically considered an Operational Qualification test for an HPLC unit?

- Ans
- ☐ 1. Detector wavelength accuracy
 - ☐ 2. Gradient linearity
 - ☐ 3. Pump flow rate
 - ☒ 4. Routine analytical tests

Q.24 What is the main goal of using rDNA technology in pharmaceuticals?

- Ans
- ☐ 1. To increase tablet size
 - ☐ 2. To change tablet color
 - ☐ 3. To improve taste of medicines
 - ☒ 4. To produce therapeutic proteins

Q.25 According to the code of pharmaceutical ethics, which of these statements is NOT allowed in advertising for medicines?

- Ans
- ☒ 1. Misleading claim
 - ☐ 2. Storage instructions
 - ☐ 3. Product origin
 - ☐ 4. Shelf-life information

Q.26 Which of the following is a commonly used antiplatelet drug?

- Ans
- ☐ 1. Paracetamol
 - ☒ 2. Aspirin
 - ☐ 3. Metformin
 - ☐ 4. Furosemide

Q.55 What is the sequence of the four stages of equipment qualification as per ICH and US FDA guidelines, which ensures reliability during manufacturing?

- Ans
- ☐ 1. Installation, performance, operational & design
 - ☐ 2. Design, installation, performance & operational
 - ☐ 3. Installation, operational, performance & design
 - ☒ 4. Design, installation, operational & performance

Q.56 Which initial step is involved in the preparation of Arista according to Ayurvedic formulation?

- Ans
- ☐ 1. Adding honey at the beginning
 - ☐ 2. Directly fermenting whole herbs
 - ☒ 3. Coarsely powdering the drugs and preparing kasaya
 - ☐ 4. Dissolving sugar in water

Q.57 In a clinical scenario where bacteria produce aminoglycoside acetyltransferase, which aminoglycoside would likely retain efficacy and why?

- Ans
- ☐ 1. Neomycin, due to its high polarity
 - ☐ 2. Gentamicin, because it has no amino groups
 - ☒ 3. Amikacin, due to its L-hydroxyaminobutyryl group at N-1
 - ☐ 4. Streptomycin, due to absence of 2-deoxystreptamine nucleus

Q.58 Why is the kasaya strained before being kept in the fermentation vessel during Arista preparation?

- Ans
- ☐ 1. To increase temperature rapidly
 - ☒ 2. To remove solid particles and obtain a clear liquid for fermentation
 - ☐ 3. To reduce sugar content
 - ☐ 4. To initiate fermentation early