 MPH 201

M. Pharma
Sem - II
6/8/25

Time: 3 Marks: 75

Q. 1 Attempt all multiple-choice questions (MCQ) 20 M

1 The term pinocytosis refers to following:
a) engulfment of bacteria
b) engulfment of fluids
c) Engulfment of immunoglobulin molecules
d) engulfment of erythrocytes

2 The following important function is characteristic of the lymph:
a) Oxygen to transport to the blood
b) Carbon-dioxide transport to the lungs:
c) Return RBCs to lymph nodes
d) Return interstitial fluid to the blood

3 Which of the following best describes passive targeting?
a) Use of ligands for specific receptor recognition
b) Accumulation at target site due to enhanced permeability and retention (EPR)
c) Targeting through antibody-antigen interaction
d) Use of magnetic fields for drug accumulation

4 Lectin receptors primarily bind to
a) Lipids
b) Nucleic acids
c) Peptides
d) Carbohydrates

5 Identify the natural polymer used in nanoparticle preparation
a) Polylactic acid
b) Chitosan
c) Polyethylene glycol
d) Polylactic-co-glycolic acid

6 All of the following are methods to prepare liposomes EXCEPT
a) Membrane Extrusion
b) Mechanical dispersion
c) Emulsion polymerization
d) Detergent removal

7 A common cross-linking agent used in nanoparticle preparation is
a) Ethanol
b) Glutaraldehyde
c) Sodium chloride
d) Acetone

8 The extent of surface charge of liposomes can be predicted from the values of

a) Zeta potential
b) Dynamic light scattering
c) Sorpotometer
d) Drug entrapment

9 Epitope is referred to as_____

a) area in the antibody which binds to antigen
b) area in the antigen which binds to antibody
c) complex formed by binding of antibody to antigen
d) variable region on the antibody

10 The following non-biodegradable polymer is used in the preparation of microspheres:

a) Acrolein
b) Polyalkyl cyano acrylates
c) Polyanhydrides
d) Lactides and glycolides and their copolymers

11 Which of the following is a component of Niosomes

a) Cationic surfactants
b) Non-ionic surfactants
c) Anionic surfactants
d) Amphoteric surfactants

12 The encapsulation efficiency of microspheres refers to

a) Percentage of drug trapped inside it
b) Rate of drug degradation
c) Polymer purity
d) Particle uniformity

13 Aerosol design governs following factors except:

a) Airway obstructions
b) Presence of particulates
c) Shape
d) Velocity

14 Improvement in the deposition of highly charged aerosols can be improved

a) Electrostatic precipitation
b) Interception
c) Sedimentation
d) Diffusion