



BRAINWARE UNIVERSITY

Term End Examination 2021 - 22
 Programme – Diploma in Pharmacy
 Course Name – Pharmaceutics- I
 Course Code - 1.1T
 (Year I)

Time allotted : 1 Hrs.35 Min.

Full Marks : 80

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question)

1 x 80=80

Choose the correct alternative from the following :

- (1) The first edition of Indian Pharmacopoeia was published in-

a) 1947	b) 1948
c) 1955	d) 1960
- (2) In Imperial system, 1 pint is equal to

a) 1 fl drachm	b) 1 fl ounces
c) 20 fl drachm	d) 20 fl ounces
- (3) The latest edition of Indian Pharmacopoeia was published in

a) 1996	b) 2010
c) 2014	d) 2018
- (4) Chewable tablets are disintegrated in-

a) Oral cavity	b) Stomach
c) Intestine	d) Colon
- (5) What is the standard unit in Avoirdupois system_?

a) Kilogram	b) Gram
c) Milligram	d) Pound
- (6) Easy application of liniments is facilitated by incorporating -

a) Soap	b) Water
c) Preservative	d) Alcohol
- (7) Medicated dusting powder can be introduced into body cavities by -

a) Nebulizer	b) Inhaler
c) Insufflator	d) Atomizer
- (8) Throat sprays are sprayed from

- a) Atomiser
c) Applicator
- b) Insufflator
d) Spreader
- (9) Viscous liquid preparation meant for relief of cough is known as-
- a) Liniments
c) Linctuses
- b) Snuffs
d) Lotions
- (10) Which of the following substances contains volatile substances used to relieve congestion of respiratory tract?
- a) Linctuses
c) Syrups
- b) Liniments
d) Inhalations
- (11) Which one of the following is a monophasic in nature?
- a) Syrup
c) Suspension
- b) Emulsion
d) Ointment
- (12) In metric system, 1 tea cupful is equal to
- a) 30 ml
c) 90 ml
- b) 60 ml
d) 120 ml
- (13) Which one of the following is not an identification test for emulsions?
- a) Dilution test
c) Conductivity test
- b) Dye test
d) Leakage test
- (14) Which of the following gas is being liberated as effervescence?
- a) Nitrogen
c) Carbon-dioxide
- b) Nitrogen
d) Oxygen
- (15) Humectants can -
- a) Reduce the particle size of powder
c) Prevent drying of the cream
- b) Increase the thickness of the ointment
d) Increase the spread of the coat over tablet
- (16) Which is not classified as tablets?
- a) Troches and lozenges
c) Granules
- b) Effervescent tablets
d) Tablet triturates
- (17) For fine powders, all the particles must pass through sieve no-
- a) 22
c) 85
- b) 44
d) 120
- (18) 2-chlorobuta-1,3-diene is commonly known as-
- a) Butyl rubber
c) Neoprene rubber
- b) Nitrile rubber
d) Silicone rubber
- (19) Valve and actuator is used for -
- a) Liquid dosage form
c) Aerosols
- b) Semisolid dosage form
d) Solid dosage form
- (20) Amber colour mainly gives protection from-
- a) Oxidation
c) Hydrolysis
- b) Reduction
d) Photo-degradation
- (21) Narrow metal bridges are used in-
- a) Lug cap
c) Roll on closure
- b) Crown cap
d) Pilfer proof closure
- (22) Containers meant for storage of injectables are made of-

- a) Lime- soda glass
c) Type IV glass
- b) Type II glass
d) Type I & Type II glass
- (23) Chloro- fluoromethanes are used in pharmaceutical industry, as-
- a) Propellants
c) Inert gas
- b) Filler
d) Refrigerant
- (24) In mortar and pestle, size reduction occurs by -
- a) Impact
c) Compression
- b) Attrition
d) Cutting
- (25) If the powder passes through sieve no 120, it is termed as -
- a) Coarse powder
c) Fine powder
- b) Moderately fine powder
d) Very fine powder
- (26) Select a mill for a low melting drug
- a) Hammer mill
c) Ball mill
- b) Roller mill
d) Fluid energy mil
- (27) Total 100 squares in a 1 inch² area is termed
- a) 100 mesh sieve
c) 20 mesh sieve
- b) 10 mesh sieve
d) 25 mesh sieve
- (28) Mixing of liquids is done for the preparation of-
- a) Hard gelatin capsules
c) Tablets
- b) Compound powders
d) Emulsions
- (29) Triple roller mill is used for the preparation of
- a) Suspensions
c) Powders
- b) Ointments
d) Tablets
- (30) For membrane filters, which pore size is effective to remove all the bacteria
- a) 0.55 μ
c) 0.30 μ
- b) 0.44 μ
d) 0.20 μ
- (31) Filtration is an unit operation commonly used for collecting-
- a) Filtrate
c) Precipitate
- b) Particulate matter
d) Slurry
- (32) Who has proposed that the filtration process is similar to the streamline flow of a liquid under pressure through capillaries?
- a) Carman
c) Kozeny
- b) Darcy
d) Poiseuilli
- (33) Which of the following explains the theory of filtration?
- a) Darcy's equation
c) Stokes equation
- b) Stefan- Boltzmann equation
d) Dalton's equation
- (34) The efficacy of filtration increases if:
- a) Compressibility of solid is high
c) Filter medium is used
- b) Filter aid is added to slurry
d) None of the these
- (35) Menstruum means-
- a) Solvent of extraction
c) Filtrate
- b) Powdered drug
d) Marc
- (36) When a drug is extracted by heating at a particular pressure, the process is known as-

- a) Digestion
 - c) Percolation
- (37) Soxhlet is a modified form of -
- a) Maceration
 - c) Infusion
 - b) Infusion
 - d) Maceration
- (38) In which of the following process, drug is kept with menstruum for 15 minutes?
- a) Maceration
 - c) Digestion
 - b) Percolation
 - d) Digestion
- (39) In which of the following method, drug is boiled with solvent?
- a) Decoction
 - c) Simple maceration
 - b) Infusion
 - d) Percolation
- (40) Triple roller mill is used for the preparation of-
- a) Suspension
 - c) Powders
 - b) Ointment
 - d) Solution
- (41) Which one of the following is not a mechanism of filtration?
- a) Sieving or screening
 - c) Electrostatic attraction
 - b) Entrapment or impaction
 - d) Compaction
- (42) Which of the following mixture is irreversible in nature?
- a) Positive mixtures
 - c) Neutral mixtures
 - b) Negative
 - d) Dry mixtures
- (43) Fractional distillation is used for separation of -
- a) Immiscible liquids
 - c) Sticky oils
 - b) Miscible liquids
 - d) High viscous liquids
- (44) Vacuum dryer is a modified form of-
- a) Vacuum still
 - c) Evaporation
 - b) Simple distillation
 - d) Sublimation
- (45) The process of converting vapour from solid state is known as-
- a) Evaporation
 - c) Sterilization
 - b) Distillation
 - d) Sublimation
- (46) Which of the following dryer is known as lyophilizer?
- a) Fluidized bed dryer
 - c) Spray dryer
 - b) Freeze dryer
 - d) Vacuum dryer
- (47) Which of the following product is not dried by spray dryer?
- a) Bacterial and viral cultures
 - c) Lactose
 - b) Fruit juice
 - d) Serum
- (48) To obtain porous product, the choice of dryer should be-
- a) Drum dryer
 - c) Spray dryer
 - b) Fluidized bed dryer
 - d) Tray dryer
- (49) In which one of the following drying process high vacuum is applied?
- a) Drum drying
 - c) Spray drying
 - b) Freeze drying
 - d) Tray drying
- (50) Which type of evaporator gives porous product on evaporation?

- a) Film evaporator
 - b) Multiple effect evaporator
 - c) Open pan evaporator
 - d) Vacuum evaporator
- (51) The most efficient heat exchange between the particles and flowing air occurs in the
- a) Tray dryer
 - b) Spray dryer Fungi
 - c) Fluidized bed dryer
 - d) Rotary dryer
- (52) The working of tray dryer is similar to -
- a) Hot air oven
 - b) Vacuum dryer
 - c) Water bath
 - d) Lyophilizer
- (53) Dewar flasks are used in
- a) Vacuum drying
 - b) Microwave drying
 - c) Freeze drying
 - d) Rotary drying
- (54) McCabe and Thiele method represents
- a) Graphical method for determining the number of theoretical plates of a fractionating column
 - b) Graphical relation between vapour pressure and temperature of component liquids of a mixture
 - c) Relationship between the vapour pressure and mole fraction of component of a mixture
 - d) Graphical relation between relative humidity and temperature
- (55) Ideally the drying should be done to a level of.
- a) EMC
 - b) CMC
 - c) CFMC
 - d) Zero moisture content
- (56) Mantoux test is carried out for -
- a) Diphtheria
 - b) Tuberculosis
 - c) Cholera
 - d) Hay fever
- (57) In moist heat method, the minimum holding time to sterilize injection at 121 °C is -
- a) 15 minutes
 - b) 20 minutes
 - c) 30 minutes
 - d) 60 minutes
- (58) Which one of the following factors does not affect natural immunity?
- a) Age
 - b) Race
 - c) Species
 - d) Profession
- (59) The storage temperature of yellow fever vaccine is -
- a) 0° C
 - b) 2-8° C
 - c) 8-12° C
 - d) 12-18° C
- (60) Autoclave is used in-
- a) Moist heat sterilization
 - b) Sterilization by radiation
 - c) Gaseous sterilization
 - d) Sterilization by filtration
- (61) Which of the following is enteric coating material?
- a) Shellac
 - b) Sucrose
 - c) Talc
 - d) Starch
- (62) Partial or complete removal of top or bottom portion of tablet is known as-
- a) Mottling
 - b) Capping
 - c) Picking
 - d) Sticking
- (63) The disintegration time of uncoated compressed tablet is-

- a) 5 minutes
c) 30 minutes
- b) 15 minutes
d) 60 minutes
- (64) Which of the following tests can measure flow property?
a) Angle of repose
c) Particle size determination
- b) Photosensitivity tests
d) Porosity determination
- (65) Which of the following is the largest size of capsule?
a) ooo
c) 1
- b) 0
d) 5
- (66) The chemical nature of Eudragit is similar to
a) Acrylic acid
c) Lactate-co glycolide
- b) Methacrylate
d) Methyl cellulose
- (67) Tablets that after oral administration release the drug at a desired time for prolonged effect are
a) Multicompressed tablets
c) Enteric-coated tablets
- b) Multilayer tablet
d) Enteric-coated tablets
- (68) The following are the types of encapsulation technique except:
a) Air suspension
c) Spray drying-congealing
- b) Pan coating
d) Compression coating
- (69) Which of the following process is not continuous for filling of soft gelatin capsules?
a) Rotary die process
c) Reciprocating die process
- b) Plate process
d) Accogel/stern machine
- (70) Type A gelatin exhibits an isoelectric point at pH
a) 2
c) 9
- b) 4
d) 11
- (71) Which of the following is a water-insoluble polymer?
a) Polyvinyl pyrrolidone
c) Ethyl cellulose
- b) Methyl cellulose
d) Arabinogalactan
- (72) 3 size of capsule will have ml capacity
a) 1.3
c) 0.68
- b) 0.95
d) 10.3
- (73) Dip coating means
a) Repeated coating and drying
c) Air in coating pan is replaced by nitrogen
- b) Application of coating to substance which can conduct charge
d) Acid-insoluble coating
- (74) Moisture content of empty capsule shell should be between _____
a) 12-15%
c) 2-6%
- b) 5-8%
d) 20-25%
- (75) Chilsonator is used as
a) Tablet coating
c) Tablet granulator
- b) Capsule filling machine
d) Drying of granules
- (76) Bloom is a measurement for _____ of gelatin molecules.
a) Dissolution
c) Elasticity
- b) Adhesiveness
d) Cohesiveness

(77) Empty capsules of gelatin should be handled at _____ %RH

- a) 1-5
- b) 15-30
- c) 30-45
- d) 45-60

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(78) _____ works on the principle of dielectric constant and removes the unfilled capsules.

- a) Rotoweigh
- b) Vericap
- c) Accofil
- d) Rotofil

(79) More alkaline product in soft gel capsule can cause _____.

- a) Tanning
- b) Leakage
- c) Roughness
- d) Solubilization

(80) From the point of view of dissolution, which of the following dosage forms is least absorbed?

- a) Coated tablets
- b) Uncoated tablets
- c) Suspension
- d) Solution