

Which of the following instrument is used to determine surface area and pore structure of pharmaceutical powders

1 point

- ☐ Coulter counter
- ☐ Anderson apparatus
- ☐ Quantasorb
- ☐ Optical microscopy

In the process of extraction, if maceration is accomplished by heating the drug and solvent in a close vessel, then this modification is known as

1 point

- ☐ Digestion
- ☐ Refining
- ☐ Expression
- ☐ Rendering

The below mentioned complex is not the type of inclusion compounds

1 point

- ☐ Channel-Lattice type
- ☐ Quinhydrone complex
- ☐ Layer type
- ☐ Clathrates



Prescription price consists of

1 point

- ☐ Cost of ingredients only
- ☐ Cost of professional fee only
- ☐ Cost of ingredients and cost of dispensing only
- ☐ Cost of ingredients and professional fee only

Given below are two statements

1 point

Statement [I]: Drugs Controller General of India is the Chairman of Drugs Technical Advi Advisory Board (DTAB)

Statement [II]: In DTAB, there will be eight ex-officio members, five nominated and five elected members

In light of the above statements, choose the most appropriate answer from the options given below

- ☐ Both Statement I and Statement II are correct
- ☐ Both Statement I and Statement II are incorrect
- ☐ Statement I is correct but Statement II is incorrect
- ☐ Statement I is incorrect but Statement II is correct

Water for injection is prepared by using distillation

1 point

- ☐ Fractional
- ☐ Molecular
- ☐ Simple
- ☐ Steam



As per the Pharmacy Act, in the composition of Pharmacy Council of India, the total number of Ex-officio members is 1 point

- ☐ THREE
- ☐ FOUR
- ☐ SIX
- ☐ EIGHT

1 point

Match List I of Unit operations of crystallizers with List II of principle/characteristics properties of crystallizer

CRYSTALLIZER UNIT OPERATIONS	PRINCIPLE/CHARACTERISTICS PROPERTIES
A. Swenson-walker crystallizer	I. Adiabatic evaporative cooling
B. Krystal crystallizer	II. Cooling alone
C. Vacuum crystallizer	III. Evaporation
D. Forced circulation type crystallizer	IV. Heat exchange, separation, circulation

Choose the correct answer from the options given below

- ☐ A-I, B-II, C-IV, D-III
- ☐ A-III, B-I, C-IV, D-II
- ☐ A-I, B-IV, C-III, D-II
- ☐ A-II, B-III, C-I, D-IV



The process of establishing a product in the minds of target customer is called as

1 point

- ☐ Product positioning
- ☐ Product differentiation
- ☐ Product targeting
- ☐ Market segmentation

Which of the following materials are specified as a suitable diluent for powdered opium

1 point

- A. Powdered grass
- B. Powdered cocoa husk
- C. Lactose colored with burnt sugar
- D. Powdered digitalis

Choose the correct answer from the options given below

- ☐ A and D only
- ☐ B and D only
- ☐ B and C only
- ☐ A and C only

Which of the following statement is false?

1 point

- ☐ Reducing agents often cause fading of dyes
- ☐ Anionic dyes are the most stable at acid pHs
- ☐ Basic dyes are not sensitive to alkalies
- ☐ Cationic dyes may be precipitated by soaps and clays



In the process of sugar coating, to prevent moisture penetration into the tablet core, which one of the following step is performed

1 point

- ☐ Seal Coating
- ☐ Subcoating
- ☐ Syrup Coating
- ☐ Polishing

Oral efficacy of Sabin Polio Vaccine can be adequately explained by which of the following processes of absorption

1 point

- ☐ Passive diffusion
- ☐ Active transport
- ☐ Ion - pair transport
- ☐ Pinocytosis

Hospital Formulary contains information on the following parameters EXCEPT

1 point

- ☐ Composition
- ☐ Indication
- ☐ Pricing
- ☐ Dosage and administration



Which one of the following is a rate equation for second order bimolecular reaction if, a and b are the initial concentrations of A and B, respectively, and x is the concentration of each species reacting in time t and k is second-order reaction

1 point

- ☐ $k = [2.303/t(a - b)] \times [\log a(a - x) / b(b - x)]$
- ☐ $k = [2303/t(a - b)] \times [\log b(a - x) / a(b - x)]$
- ☐ $k = [2303/t(a - b)] / [\log b(a - x) / a(b - x)]$
- ☐ $k = [2303/t(a - b)] / [\log a(a - x) / b(b - x)]$

Which of the following DRYERS is a "static bed dryer"

1 point

- ☐ Freeze dryer
- ☐ Fluid bed dryer
- ☐ Spray dryer
- ☐ Flash dryer

In thermoplastic materials, which are used as a container/packaging material, additives like polyethylene and polypropylene are used as

1 point

- ☐ Plasticizer
- ☐ Stabilizers
- ☐ Surface treatment film
- ☐ Slip agent



Match List I with List II

List I	List II
A. When two dosage forms have equal t_{\max}	I. When their total body clearance is constant
B. AUC values of the two analogs can be compared to measure relative bioavailability	II. Absorption rate constants are equal
C. Urinary data is valid to measure bioavailability	III. When fraction absorbed and elimination rate is constant
D. C_{\max} is proportional to the rate of absorption	IV. Excretion of drug and/or metabolite is related to the bioavailable dose

Choose the correct answer from the options given below

- ☐ A-II, B-I, C-IV, D-III
- ☐ A-I, B-II, C-III, D-IV
- ☐ A-I, B-IV, C-III, D-II
- ☐ A-III, B-I, C-II, D-IV

