

An epoxy ring can be prepared by

1 point

- ☐ DC C oxidation of alcohol
- ☐ Prevost reaction
- ☐ Darzens glycidic ester synthesis
- ☐ Swern oxidation

1 point

Match List I with List II:

List-I Equipment	List-II Model / Trade Name / Type
(P) Low shear mixer	(I) Manestry Drycota
(Q) Rotary tablet machine	(II) Chilsonator (Fitzpatrick)
(R) Capsule filling machine	(III) Slated Double Cone Mixer
(S) Compaction mill	(IV) Prosolv (JRS Pharma)
	(V) PCF 1200 Model (Pharma Land)

Choose the correct answer from the options given below:

- ☐ (P)-(I), (Q)-(II), (R)-(IV), (S)-(III)
- ☐ (P)-(II), (Q)-(III), (R)-(I), (S)-(IV)
- ☐ (P)-(III), (Q)-(I), (R)-(V), (S)-(II)
- ☐ (A)-(I), (B)-(II), (C)-(IV), (D)-(III)



The immunity acquired by inoculation of living organism of attenuated virulence is:

1 point

- ☐ Natural passive immunity
- ☐ Passive immunity
- ☐ Artificial acquired immunity
- ☐ Natural active immunity

Compendium of pharmaceuticals and specialties is an International drug compendia from

1 point

- ☐ German Pharmaceutical Association
- ☐ Australian Pharmaceutical Association
- ☐ Indian Pharmaceutical Association
- ☐ Canadian Pharmaceutical Association

Limit for the following heavy metal/s is/are mentioned in the WHO guidelines for herbal drug evaluation.

1 point

Cadmium

Mercury

Lead

Arsenic

Choose the correct answer from the options given below:

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



Which of the following ICH Harmonized Tripartite Guidelines related to stability, provides approaches that allows for bracketing and matrixing designs for stability testing. This is especially important when a new drug product is to be commercialized with multiple strengths in multiple packaging configurations.

1 point

- ☐ Q1F
- ☐ Q1D
- ☐ Q1B
- ☐ Q1A

Match the following:

(P) Apoptosis	(I) Progressive <u>degradative</u> action of Enzymes
(Q) Necrosis	(II) Tightly regulated intracellular program in which destined
(R) <u>Anaplasia</u>	(III) Abnormal mass of tissue cells to day
(S) Neoplasm	(IV) Lack of differentiation

- ☐ (P)-(II), (Q)-(I), (R)-(IV), (S)-(III)
- ☐ (P)-(IV), (Q)-(III) (R)-(II), (S)-(I)
- ☐ (Q)-(I), (R)-(II), (S)-(III), (P)-(IV)
- ☐ (R)-(II), (S)-(III), (P)-(IV), (Q)-(I)

1 point



To determine the effect of breath holding on the deposition of particles, the sedimentation efficiency, S , is defined as. 1 point

- ☐ $S = (\text{Distance the particle falls during breath holding}) \div (\text{Mean regional airway diameter})$
- ☐ $S = (\text{Distance the particle falls during breath holding}) \times (\text{Half the mean regional airway diameter})$
- ☐ $S = (\text{Distance the particle falls during breath holding}) + (\text{Twice mean regional airway diameter})$
- ☐ $S = (\text{Distance the particle falls during breath holding}) - (\text{Mean regional airway diameter})$

Which one of the following is a competitive antagonist at benzodiazepine site of GABA-receptor gated chloride channel 1 point

- ☐ Muscimol
- ☐ Flumazenil
- ☐ Picrotoxin
- ☐ Beta-carboline (DMCM)

The initial concentration of a drug decomposing according to first order kinetics is 28 units/mL. The specific decomposition rate, k , obtained from an Arrhenius plot is $2.09 \times 10^{-5} \text{ hr}^{-1}$ at room temperature. 25°C . Previous experimentation has shown that when the concentration of the drug falls below 15 units/mL it is not sufficiently potent for use and should be removed from the market. What expiration date should be assigned to this product 1 point

- ☐ Approximately 31,012.15 hours
- ☐ Approximately 32,225.56 hours
- ☐ Approximately 27,216.12 hours
- ☐ Approximately 29,869.23 hours



HEPA filters are defined as A or more efficient in removing, from the air. B particles generated by vaporization of the hydrocarbon Emory 3004.

1 point

- ☐ A-99.99% B-0.1 μ .m
- ☐ A-99.00% B-0.3 μ m
- ☐ A-99.99% B-0.3 μ .m
- ☐ A-99.00 B-0.1 μ .m

Some individuals are obsessed with using purgatives regularly as a reflection of their psychological problem. Dangers of purgative overuse include all of the following EXCEPT:

1 point

- ☐ Flaring up of intestinal pathology like rupture of inflamed appendix
- ☐ Fluid and electrolyte imbalance, especially hypokalemia
- ☐ Steatorrhoea, malabsorption syndrome
- ☐ Protein build up in the body as a result of enteropathy

Which of the following microbial form listed below, exhibits the highest level of resistance to physical and chemical methods of growth control?

1 point

- ☐ Naked Virus
- ☐ Protozoan cyst
- ☐ Vegetative bacterial cell
- ☐ Bacterial endospore



Given below are two statements, one is labelled as Assertion and the other is labelled as Reason (R). 1 point

Assertion : Gram negative bacteria do not retain the primary stain when washed with alcohol and subsequently stained again with secondary stain.

Reason (R): The outer membrane of gram negative bacteria contains lipopolysaccharides. In light of the above statements.

Choose the correct answer from the options given below

- ☐ Both A and (R) are true and (R) is the correct explanation of A
- ☐ Both A and (R) are true but (R) is NOT the correct explanation of A
- ☐ A is true but (R) is not false
- ☐ A is false but (R) is true

1 point

Match the following under chemical compounds under Column I with their respective chemical tests under Column II

Column I Compounds	Column II Chemical tests
P. Quinine	i. Borntrager's
Q. Digitoxin	ii. Thalleoquin
R. Atropine	iii. Vitali Morin
S. Sennosides	iv. Keller killiani

Choose the correct answer from the options given below:

- ☐ P-ii, Q-iv, R-iii, S-i
- ☐ P-iii, Q-iv, R-ii, S-i
- ☐ P-i, Q-ii, R-iii, S-iv
- ☐ P-iv, Q-iii, R-ii, S-i



Marker compound analysis is one of the useful methods for evaluation of herbal drugs.

1 point

- ☐ The following statement is NOT true about marker compound analysis:
- ☐ Used to verify potency or identity of herbal drug
- ☐ Marker compounds are always therapeutically active
- ☐ Quantification of marker compounds can be carried out by HPLC/HPTLC/GC
- ☐ The marker compounds are generally secondary metabolites.

In Gambir-fluorescin test the petroleum spirit layer shows

1 point

- ☐ Green fluorescence
- ☐ Blue fluorescence
- ☐ Yellow fluorescence
- ☐ Red fluorescence

Which one of the following plexus is a part of the central nervous system in the brain and consists of capillaries, ventricles, and ependymal cells?

1 point

- ☐ Celiac plexus
- ☐ Choroid plexus
- ☐ Cervical plexus
- ☐ Brachial plexus

