

Andhra Pradesh State Council of Higher Education

Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

Question Paper Name :	PY2
Subject Name :	Pharmacy
Creation Date :	2025-06-06 12:57:12
Duration :	120
Total Marks :	120
Display Marks:	No
Share Answer Key With Delivery Engine :	Yes
Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No
Show Progress Bar :	No

Pharmacy

Group Number :	1
Group Id :	83189677
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No

Break time : 0
Group Marks : 120

Pharmacy

Section Id : 83189677
Section Number : 1
Section type : Online
Mandatory or Optional : Mandatory
Number of Questions : 120
Number of Questions to be attempted : 120
Section Marks : 120
Maximum Instruction Time : 0
Sub-Section Number : 1
Sub-Section Id : 83189677
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 8318969121 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The drug 'Pectin' belongs to the category of _____.

Options :

1. ✓ polyuronide
2. ✗ disaccharide

alkaloid

3. ✖

Monosaccharide

4. ✖

Question Number : 2 Question Id : 8318969122 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Source of *pale catechu* is _____.

Options :

Eucalyptus rostrata

1. ✖

Uncaria gambir

2. ✔

Terminalia chebula

3. ✖

Punica granatum

4. ✖

Question Number : 3 Question Id : 8318969123 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Trichomes with quadracellular head & sessile stalk are seen in ____.

Options :

1. ✖ Digitalis
2. ✖ Belladonna
3. ✖ Hyoscyamus
4. ✔ Vasaka

Question Number : 4 Question Id : 8318969124 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following crude drug is obtained from mineral origin?

Options :

1. ✖ Digitalis

2. ✖ Sandalwood

3. ✖ Nux vomica

4. ✔ Kaolin

Question Number : 5 Question Id : 8318969125 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The natural oil of winter green majorly contains _____.

Options :

1. ✔ methyl salicylate

2. ✖ salicylic acid

3. ✖ phenol

4. ✖ α -naphthol

Question Number : 6 Question Id : 8318969126 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Mangifera indica belongs to the family:

Options :

1. ✖ Phyllanthaceae
2. ✖ Combretaceae
3. ✖ Meliaceae
4. ✔ Anacardiaceae

Question Number : 7 Question Id : 8318969127 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Steroidal saponins are biosynthesized via _____.

Options :

1. ✖ shikimic acid pathway

2. ✓ mevalonic acid pathway

3. ✗ aceto-acetate pathway

4. ✗ Calvin's cycle

Question Number : 8 Question Id : 8318969128 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The swelling index of a crude drug is used to evaluate the _____.

Options :

1. ✗ presence of alkaloids

2. ✗ moisture content

3. ✓ mucilage content

4. ✗ presence of volatile oils

Question Number : 9 Question Id : 8318969129 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The biological source of cotton fiber is _____.

Options :

1. ✖ Cyamopsis tetragonolobus

2. ✔ Gossypium barbadense

3. ✖ Saraca indica

4. ✖ Arachis hypogaea

Question Number : 10 Question Id : 8318969130 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Number of isoprene units present in diterpenes are _____.

Options :

1. ✖ 2

2. ✖ 3

3. ✔ 4

4. ✖ 5

Question Number : 11 Question Id : 8318969131 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which is the specific test for the identification of cardiac glycoside?

Options :

1. ✖ Baljet's test

2. ✖ Legal test

3. ✖ Keller – kiliani test

4. ✔ 3,5- dinitro benzoic acid test

Question Number : 12 Question Id : 8318969132 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Match the following correctly.

A) Goldbeater skin test	1) Carbohydrates
B) Molisch test	2) Terpenoids
C) Mayer's test	3) Tannins
D) Salkowski test	4) Alkaloids

Options :

1. ✖ A-2; B-3; C-4; D-1

2. ✖ A-4; B-3; C-2; D-1

3. ✔ A-3; B-1; C-4; D-2

4. ✖ A-1; B-4; C-2; D-3

Question Number : 13 Question Id : 8318969133 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Glass wool is primarily used in pharmaceutical applications for _____.

Options :

1. ✖ drug formulation
2. ✔ insulation and filtration
3. ✖ textile production
4. ✖ capsule coating

Question Number : 14 Question Id : 8318969134 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

An alkaloid containing one of the nitrogen atoms as quaternary nitrogen is:

Options :

1. ✖ Atropine

2. ✖ Ephedrine

3. ✔ Tubocurarine

4. ✖ Mescaline

Question Number : 15 Question Id : 8318969135 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following plant cell culture technique is generally regarded as a “closed system” technique?

Options :

1. ✖ Continuous cultures

2. ✔ Batch suspension cultures

3. ✖ Semi continuous cultures

4. ✖ Petri plate cultures

Question Number : 16 Question Id : 8318969136 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Rasburicase is a newer drug used in gout. It acts by _____.

Options :

1. ✖ decreasing urate synthesis

2. ✔ increasing urate oxidation

3. ✖ decreasing intestinal absorption of uric acid

4. ✖ increasing renal excretion of uric acid

Question Number : 17 Question Id : 8318969137 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

1-[(5-methylpyrazin-2-yl-carboxamide) ethyl phenyl sulphonyl]-3cyclohexyl urea is _____.

Options :

1. ✖ Glimepride
2. ✔ Glipizide
3. ✖ Glyburide
4. ✖ Repaglinide

Question Number : 18 Question Id : 8318969138 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Select the INCORRECT statement with respect to the SAR of adrenergic agonists with specific reference to 3',5'-dihydroxy ring substitution pattern.

Options :

1. ✓ Increases the drug distribution
2. ✗ Increases resistance to metabolism by COMT
3. ✗ Provides selectivity for β 2-receptors
4. ✗ Orally active bronchodilator

Question Number : 19 Question Id : 8318969139 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The term “bioisosterism” in drug design aims to maintain or improve the molecule's biological activity by:

Options :

1. ✗ Replacement of a functional group with another that enhances lipophilicity

Replacement of a chemical group in a molecule with another that has similar physical and chemical properties

2. ✓

Structural modification to increase water solubility

3. ✗

Conversion of a drug into a salt form

4. ✗

**Question Number : 20 Question Id : 8318969140 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0**

Pharmacophore modelling involves _____.

Options :

identifying excipients for formulation development with enhanced bioavailability

1. ✗

monitoring plasma levels of drugs for better pharmacodynamics

2. ✗

predicting half-life of drugs

3. ✖

creating a 3D model of the necessary features to interact with a target

4. ✔

Question Number : 21 Question Id : 8318969141 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

IUPAC name of aspirin is _____.

Options :

salicylic anhydride

1. ✖

2-ethyl salicylate

2. ✖

2-acetoxybenzoic acid

3. ✔

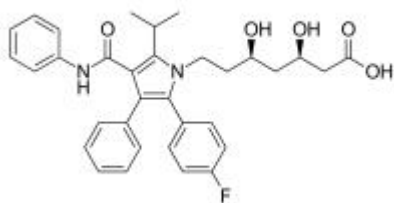
4-hydroxybenzoic acid

4. ✖

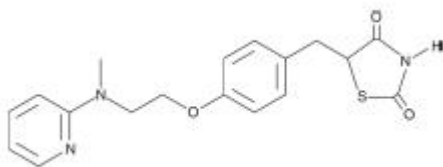
Question Number : 22 Question Id : 8318969142 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following drugs act via PPAR- α activation?

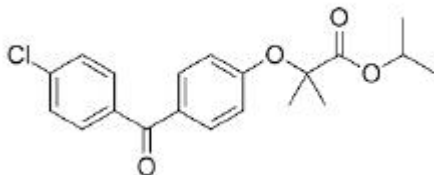
Options :



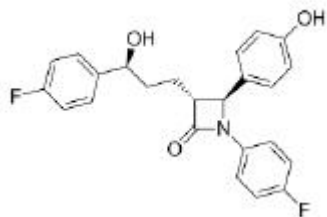
1. ✖



2. ✖



3. ✔



4. ✖

Question Number : 23 Question Id : 8318969143 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

What does “QSAR” stands for in drug design?

Options :

Qualitative Selective-Activity Response

1. ✖

Quick Structure-Activity Response

2. ✖

Quantitative Structure-Activity Relationship

3. ✔

Quantitative Selective-Activity Relationship

4. ✖

Question Number : 24 Question Id : 8318969144 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

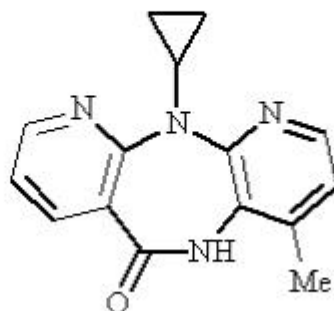
What is the primary function of dental abrasives?

Options :

- 1.  Removing plaque and stains
- 2.  Enhancing digestion
- 3.  Neutralizing stomach acid
- 4.  Regulating blood pressure

Question Number : 25 Question Id : 8318969145 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following statements is true regarding the following structure (nevirapine)?



Options :

It is a nucleoside reverse transcriptase inhibitor (NRTI).

1. ✖

It binds to an allosteric binding site next to the substrate binding site of reverse transcriptase

2. ✔

It is an achiral molecule

3. ✖

It is an example of a second-generation drug of its class

4. ✖

Correct Marks : 1 Wrong Marks : 0

When 6-OH of morphine is replaced by 6-O-acetyl group, then the activity will _____.

Options :

1. ✓ increase
2. ✗ decrease
3. ✗ no effect
4. ✗ Antagonistic

Question Number : 27 Question Id : 8318969147 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following drugs causes severe birth defects due to stereo chemical differences in its enantiomers?

Options :

1. ✗ Tamoxifen

2. ✖ Methamphetamine

3. ✔ Thalidomide

4. ✖ Paclitaxel

Question Number : 28 Question Id : 8318969148 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The antihypertensive drug with a tetrazole nucleus that binds to AT1 receptor with high affinity is _____.

Options :

1. ✖ diazoxide

2. ✔ valsartan

3. ✖ talupidine

4. ✖ fosinopril

Question Number : 29 Question Id : 8318969149 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The E/Z nomenclature is used to describe _____ isomerism.

Options :

1. ✖ optical

2. ✔ geometrical

3. ✖ chain

4. ✖ functional group

Question Number : 30 Question Id : 8318969150 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which enzyme is targeted by beta-lactam antibiotics?

Options :

1. ✖ DNA gyrase
2. ✔ Transpeptidase
3. ✖ Reverse transcriptase
4. ✖ Topoisomerase

Question Number : 31 Question Id : 8318969151 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Lipinski's rule of five is linked with _____.

Options :

1. ✖ drug's metabolic pathway
2. ✖ potency of drug-receptor binding

3. ✓ drug-likeness for oral bioavailability

4. ✗ stability under acidic conditions

Question Number : 32 Question Id : 8318969152 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following is not the category of cardiotonic agents?

Options :

1. ✗ Calcium sensitizers

2. ✗ Phosphodiesterase III inhibitors

3. ✓ Beta-adrenergic antagonists

4. ✗ Cardiac glycosides

Question Number : 33 Question Id : 8318969153 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

SAR studies of sulfonamides suggest that antibacterial activity is not lost when the _____.

Options :

1. ✓ sulfonamide group is acetylated
2. ✗ amine group is replaced with halogens
3. ✗ aromatic ring is replaced with a non-aromatic moiety
4. ✗ sulfonyl group is replaced by a carboxyl group

Question Number : 34 Question Id : 8318969154 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

What is the role of ethanol in the preparation of barium sulphate reagent?

Options :

1. ✖ To provide an acidic medium
2. ✖ To oxidize barium
3. ✖ To precipitate barium
4. ✔ To prevent super-saturation

Question Number : 35 Question Id : 8318969155 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Identify the key step in the synthesis of beta-blockers.

Options :

1. ✔ Condensation of amines with aromatic rings
2. ✖ Hydrolysis of esters

Oxidation of alcohols

3. ✖

Reduction of ketones

4. ✖

Question Number : 36 Question Id : 8318969156 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

As compared to unfractionated heparin, low molecular weight heparins _____.

Options :

1. ✔ are absorbed more uniformly when given subcutaneously

2. ✖ require more frequent laboratory monitoring

3. ✖ can be given to patients with heparin induced thrombocytopenia

predispose to a higher risk of osteopenia

4. ✖

Question Number : 37 Question Id : 8318969157 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Anxiolytic drugs like lorazepam primarily act on _____ receptors.

Options :

1. ✖ serotonin

2. ✖ NMDA

3. ✔ GABA-A

4. ✖ dopamine

Question Number : 38 Question Id : 8318969158 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following is used as anticaries agent?

Options :

1. ✖ Calcium carbonate
2. ✖ Sodium lauryl sulphate
3. ✖ Zinc chloride
4. ✔ Sodium fluoride

Question Number : 39 Question Id : 8318969159 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The locally acting antacid(s) known for its constipation effect is/are:

Options :

1. ✖ Sodium bicarbonate

2. ✓ Aluminium hydroxide

3. ✗ Magnesium hydroxide

4. ✗ Sucralose

Question Number : 40 Question Id : 8318969160 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Match the following limit test reagents correctly.

A) Arsenic	1) Dithizone
B) Lead	2) Thioglycolic acid
C) Iron	3) Barium chloride
D) Barium	4) Mercuric chloride

Options :

1. ✓ A-4; B-1; C-2; D-3

2. ✖ A-3; B-2; C-4; D-1

3. ✖ A-2; B-1; C-4; D-3

4. ✖ A-3; B-4; C-2; D-1

Question Number : 41 Question Id : 8318969161 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

In general, Kraft point phenomenon is generally not exhibited by which of the following surfactant?

Options :

1. ✔ Tweens

2. ✖ Sodium lauryl sulphate

3. ✖ Calcium oleate

Sodium stearate

4. ✖

Question Number : 42 Question Id : 8318969162 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The angle of repose is primarily used to determine _____.

Options :

particle density

1. ✖

flowability of powders

2. ✔

surface charge

3. ✖

particle solubility

4. ✖

Question Number : 43 Question Id : 8318969163 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

A first-order reaction has a half-life of 24 hours. What is its rate constant (k)?

Options :

1. ✓ 0.0289 hr^{-1}
2. ✗ 0.693 hr^{-1}
3. ✗ 0.5 hr^{-1}
4. ✗ 1.2 hr^{-1}

Question Number : 44 Question Id : 8318969164 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

What is water number?

Options :

1. ✓ Maximum amount of water that can be added to 100 g of a base at a given temperature

2. ✖ Minimum amount of water that can be added to 100 g of a base at a given temperature

3. ✖ Minimum amount of water that can be added to 5 g of a base at a given temperature

4. ✖ Minimum amount of water that can be added to 40 g of a base at given temperature

Question Number : 45 Question Id : 8318969165 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Correct Marks : 1 Wrong Marks : 0

What is a molecular phenomenon where by adding a second solute results in an increase in aqueous solubility of poorly soluble solute?

Options :

1. ✖ Peptization

2. ✔ Hydrotrophy

Eutectic mixture formation

3. ✖

Levigation

4. ✖

Question Number : 46 Question Id : 8318969166 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

If pKa of a weak electrolyte is 4.2, how much percentage of it will be ionized at pH of 5.2?

Options :

1. ✖ 50%

2. ✔ >50%

3. ✖ <50%

4. ✖ Cannot be predicted

Question Number : 47 Question Id : 8318969167 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The distance between two tangents on opposite sides of the particle parallel to some fixed direction is called as _____ diameter.

Options :

1. ✖ Martin diameter
2. ✔ Feret diameter
3. ✖ Projected area diameter
4. ✖ Projected number diameter

Question Number : 48 Question Id : 8318969168 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The density that is determined by displacement of helium is known as _____ density.

Options :

1. ✔ true

2. ✖ intrinsic

3. ✖ granule

4. ✖ bulk

Question Number : 49 Question Id : 8318969169 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which sterilization method is suitable for heat-labile parenteral solutions?

Options :

1. ✖ Autoclaving

2. ✖ Dry heat

3. ✔ Filtration

UV radiation

4. ✖

Question Number : 50 Question Id : 8318969170 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The solubility of the drug will be high when it is in its _____ form.

Options :

1. ✖ stable

2. ✔ metastable

3. ✖ unstable

4. ✖ crystalline

Question Number : 51 Question Id : 8318969171 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

In a suspension, the purpose of a flocculating agent is to _____.

Options :

1. ✖ increase viscosity
2. ✔ prevent caking
3. ✖ enhance solubility
4. ✖ reduce particle size

Question Number : 52 Question Id : 8318969172 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which suppository base is water-soluble?

Options :

1. ✖ Cocoa butter
2. ✔ PEG

3. ✖ Gelatin

4. ✖ Witexsol

Question Number : 53 Question Id : 8318969173 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Vanishing cream is an example of _____.

Options :

1. ✖ w/o emulsion

2. ✔ o/w

3. ✖ w/o/w

4. ✖ Microemulsion

Question Number : 54 Question Id : 8318969174 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Bulking agent used for parenteral preparation is _____.

Options :

1. ✖ sodium metabisulphite
2. ✖ benzyl alcohol
3. ✖ carboxylic acid
4. ✔ Sorbitol

Question Number : 55 Question Id : 8318969175 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The disintegration time for sugar coated tablet is _____ minutes.

Options :

1. ✖ 30
2. ✖ 45

3. ✓ 60

4. ✗ 75

Question Number : 56 Question Id : 8318969176 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following tablet problems cannot be eliminated by pre-compression?

Options :

1. ✓ Mottling

2. ✗ Lamination

3. ✗ Double impression

4. ✗ Capping

Question Number : 57 Question Id : 8318969177 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following is not used for the enteric coating of the tablets?

Options :

1. ✖ Cellulose acetate pthalate
2. ✔ Hydroxy propyl methyl cellulose
3. ✖ Shellac
4. ✖ Eudragit L

Question Number : 58 Question Id : 8318969178 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Study of adverse effects of drugs and toxic substances in the body is

_____.

Options :

1. ✔ Clinical Toxicology

2. ✖ Biopharmaceutics

3. ✖ Clinical Pharmacokinetics

4. ✖ Toxicokinetics

Question Number : 59 Question Id : 8318969179 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

LAL test is used as an in-process control in parenteral preparation to examine presence of _____.

Options :

1. ✖ pyrogens

2. ✔ endotoxins

3. ✖ exotoxins

4. ✖ proteinaceous matter

Question Number : 60 Question Id : 8318969180 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

If the plasma half-life of a drug is 1.386 h and the volume of distribution is 10 L, the total body clearance of the drug without any unit conversion will be _____.

Options :

1. ✔ 5

2. ✖ 20

3. ✖ 13.86

4. ✖ 6.93

Question Number : 61 Question Id : 8318969181 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The best explanation for the absorption of salicylic acid from intestine, despite being ionized is:

Options :

1. ✖ High surface area of the drug molecules
2. ✖ Dissolution of drug
3. ✔ Availability of 1% of the un-ionized form
4. ✖ Availability of receptors

Question Number : 62 Question Id : 8318969182 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The area under the serum concentration time curve represents the _____.

Options :

1. ✖ biological half-life of the drug

2. ✓ amount of drug absorbed

3. ✗ amount of drug excreted in the urine

4. ✗ amount of drug in the original dosage form

Question Number : 63 Question Id : 8318969183 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Fumaric acid is used in gelatin capsule shell is used as _____.

Options :

1. ✗ plasticizer

2. ✗ antioxidant

3. ✓ solubilizer

Opacifier

4. ✖

Question Number : 64 Question Id : 8318969184 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Wurster's process is also better known as _____.

Options :

- 1. ✖ rotary plate process
- 2. ✔ air suspension coating
- 3. ✖ coacervation process
- 4. ✖ pan coating

Question Number : 65 Question Id : 8318969185 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

What is the ideal particle size for topical powders?

Options :

1. ✓ 50 to 100 μm
2. ✗ 150 to 250 μm
3. ✗ 250 to 500 μm
4. ✗ Above 1000 μm

Question Number : 66 Question Id : 8318969186 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

A super disintegrant in tablet formulation is _____.

Options :

1. ✓ sodium starch glycolate
2. ✗ starch

3. ✖ PVP

4. ✖ Mg-aluminium silicate

Question Number : 67 Question Id : 8318969187 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The creatinine clearance in normal 70 kg individuals is typically in the range of _____ mL/min.

Options :

1. ✔ 100-120

2. ✖ 200-250

3. ✖ 50-100

4. ✖ 120-200

Question Number : 68 Question Id : 8318969188 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

A co-solvent used in the preparation of parenteral products is _____.

Options :

1. ✖ benzyl alcohol
2. ✖ methyl alcohol
3. ✔ dimethyl acetamide
4. ✖ phenol

Question Number : 69 Question Id : 8318969189 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If zeta potential of a suspension is high, then the system will be considered as _____.

Options :

1. ✔ deflocculed

- 2. ✖ flocculed
- 3. ✖ emulsion
- 4. ✖ sedimentation

Question Number : 70 Question Id : 8318969190 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Non-linear pharmacokinetics is most likely due to _____.

Options :

- 1. ✖ first-pass metabolism
- 2. ✔ saturation of metabolic enzymes
- 3. ✖ renal excretion
- 4. ✖ high plasma protein binding

Question Number : 71 Question Id : 8318969191 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Match the following:

A) Schedule Y	1) List of minimum equipment for efficient running of a pharmacy
B) Schedule G	2) Life period of drugs
C) Schedule N	3) Requirements and guidelines on clinical trials for import and manufacture of new drugs
D) Schedule P	4) List of drugs to be used under medical supervision

Options :

A-2;, B-3; C-4; D-1

1. ✖

A-4; B-1; C-2; D-3

2. ✖

A-3; B-4; C-1; D-2

3. ✔

4. ✖ A-2; B-4; C-2; D-3

Question Number : 72 Question Id : 8318969192 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The first schedule of the Drugs and Cosmetics Act, 1940 deals with _____.

Options :

- 1. ✖ standards to be complied with by imported drugs and by drugs manufactured for sale, stocked or exhibited for sale, sold or distributed
- 2. ✖ standard to be complied for cosmetics
- 3. ✔ authoritative books of Ayurvedic, Sidhha and Unani Tibb system
- 4. ✖ standards to be complied for medical devices

Question Number : 73 Question Id : 8318969193 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The Drugs Controller General of India (DCGI) can issue an order to ban a drug on the recommendations of _____

Options :

Indian Council of Medical Research

1. ✖

Pharmacy Council of India

2. ✖

Drugs Technical Advisory Board

3. ✔

National Pharmaceutical Pricing Authority

4. ✖

Question Number : 74 Question Id : 8318969194 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

_____ is a psychotropic substance under the Narcotics and Psychotropic Substances Act.

Options :

1. ✓ Barbitol
2. ✗ Ampicillin
3. ✗ Albendazole
4. ✗ Chloroquine

Question Number : 75 Question Id : 8318969195 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Who is the Ex-officio Members of Pharmacy Council of India?

Options :

1. ✗ Director, Central Drugs Research Laboratory
2. ✓ Director General of Health Services

3. ✖ President, Medical Council of India

4. ✖ Director, Central Research Institute

Question Number : 76 Question Id : 8318969196 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which drug acts as a selective serotonin reuptake inhibitor (SSRI)?

Options :

1. ✖ Amitriptyline

2. ✔ Fluoxetine

3. ✖ Diazepam

4. ✖ Phenelzine

Question Number : 77 Question Id : 8318969197 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Atropine blocks the effects of acetylcholine at _____receptors.

Options :

1.  nicotinic
2.  muscarinic
3.  alpha-1
4.  beta-2

Question Number : 78 Question Id : 8318969198 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Levothyroxine is a synthetic analogue of _____.

Options :

1.  Triiodothyronine (T₃)

2. ✓ Thyroxine (T₄)

3. ✗ TSH

4. ✗ Calcitonin

Question Number : 79 Question Id : 8318969199 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Penicillins act by inhibiting _____.

Options :

1. ✗ cell membrane synthesis

2. ✗ DNA gyrase

3. ✓ cell wall synthesis

4. ✗ protein synthesis

Question Number : 80 Question Id : 8318969200 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following antidiabetic agent primarily enhances insulin sensitivity in target tissues?

Options :

1. ✖ Sulfonylureas
2. ✖ Biguanides
3. ✔ Thiazolidinediones
4. ✖ Alpha-glucosidase inhibitors

Question Number : 81 Question Id : 8318969201 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which local anaesthetic is commonly used for spinal anaesthesia due to its long duration of action?

Options :

1. ✖ Lidocaine
2. ✔ Bupivacaine
3. ✖ Procaine
4. ✖ Mepivacaine

Question Number : 82 Question Id : 8318969202 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Development of drug resistance is not generally associated with overexpression of which of the following transporters?

Options :

1. ✖ BCRP
2. ✖ ABCB1

3. ✖ MDR1

4. ✔ Folate receptors

Question Number : 83 Question Id : 8318969203 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following cellular transport requires energy?

Options :

1. ✔ Active transport

2. ✖ Passive transport

3. ✖ Facilitated transport

4. ✖ Pinocytosis

Question Number : 84 Question Id : 8318969204 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following is not correct for the H₁ receptor antagonists?

Options :

1. ✖ Strongly block the increased capillary permeability caused by histamine
2. ✖ Suppress the flare and itching caused by intradermal injection
3. ✔ Always suppress the gastric secretion
4. ✖ Relieve the allergic reactions

Question Number : 85 Question Id : 8318969205 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Absorption of oral iron preparations can be facilitated by co-administering _____.

Options :

1. ✖ calcium carbonate

2. ✖ calcium phosphate

3. ✔ ascorbic acid

4. ✖ casein

Question Number : 86 Question Id : 8318969206 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The weight ratio of T4 and T3 in the combination preparations is
_____.

Options :

1. ✖ 1:3

2. ✖ 3:1

3. ✖ 1:4

4. ✔ 4:1

Question Number : 87 Question Id : 8318969207 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The antiplatelet action of aspirin involves _____ inhibition.

Options :

1. ✓
arachidonic acid pathway
2. ✗
ADP pathway
3. ✗
glycoprotein IIb/IIIa receptor
4. ✗
phosphodiesterase

Question Number : 88 Question Id : 8318969208 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The drug that is not metabolized using hydrolysis reaction is _____.

Options :

1. ✖ aspirin
2. ✖ lidocaine
3. ✔ morphine
4. ✖ procaine

Question Number : 89 Question Id : 8318969209 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which receptor type is primarily involved in the "fight or flight" response?

Options :

1. ✔ alpha-1 adrenergic
2. ✖ beta-2 adrenergic

3. ✖ Muscarinic

4. ✖ Nicotinic

Question Number : 90 Question Id : 8318969210 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Find the direct oral anticoagulant drug from the following.

Options :

1. ✖ Heparin

2. ✔ Dabigatran

3. ✖ Warfarin

4. ✖ Aspirin

Question Number : 91 Question Id : 8318969211 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following is true regarding the purpose of taking a medication history of patient?

Options :

1. ✓ To identify potential drug interactions and allergies
2. ✗ To know the cost of medications
3. ✗ Both a and b are correct
4. ✗ Both a and b are incorrect

Question Number : 92 Question Id : 8318969212 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following is acting as an antidiarrheal agent?

Options :

1. ✗ Bisacodyl

- 2. ✖ Docusate
- 3. ✔ Loperamide
- 4. ✖ Lactulose

Question Number : 93 Question Id : 8318969213 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

For the emergency treatment of severe hypoglycaemia, which of the following is administered?

Options :

- 1. ✖ Pramlintide
- 2. ✔ Glucagon
- 3. ✖ Rosiglitazone
- 4. ✖ Metformin

Question Number : 94 Question Id : 8318969214 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Identify the drug used in androgen replacement therapy.

Options :

1. ✘ Cortisol
2. ✘ Estrogen
3. ✘ Progesterone
4. ✔ Testosterone enanthate

Question Number : 95 Question Id : 8318969215 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The primary action of diuretics in hypertension management is

_____.

Options :

1. ✖ reducing urine output
2. ✔ reducing volume of blood
3. ✖ inhibiting calcium channels
4. ✖ increasing heart rate

Question Number : 96 Question Id : 8318969216 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

When absorption energy is increased, then the shift is called _____.

Options :

1. ✖ Hypochromic shift
2. ✖ Hyperchromic shift

Bathochromic shift

3. ✖

Hypsochromic shift

4. ✔

Question Number : 97 Question Id : 8318969217 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

What is the wavelength of finger print region?

Options :

100-500 cm^{-1}

1. ✖

500-1500 cm^{-1}

2. ✔

1700-2000 cm^{-1}

3. ✖

400-800 cm^{-1}

4. ✖

Question Number : 98 Question Id : 8318969218 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Beer lambert's law indicates _____.

Options :

1. ✓
absorbance is directly proportional to concentration
2. ✗
absorbance is indirectly proportional to concentration
3. ✗
absorbance is indirectly proportional to path length
4. ✗
absorbance is indirectly proportional to molar absorptivity

Question Number : 99 Question Id : 8318969219 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

In HPLC analysis, what type of column is preferred?

Options :

1. ✗
A column with high HETP and high number of plates

2. ✖ A column with low HETP and low number of plates
3. ✖ A column with high HETP and low number of plates
4. ✔ A column with low HETP and high number of plates

Question Number : 100 Question Id : 8318969220 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Following are the desirable properties of the liquid phase used in GLC
EXCEPT for one of the following. Identify the same.

Options :

1. ✖ It should be inert to the analytes
2. ✔ It should have high viscosity at operating temperature
3. ✖ It should have low vapour pressure at the operating temperature

It should have a high resolving power

4. ✖

Question Number : 101 Question Id : 8318969221 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following is a primary function of GLP?

Options :

To ensure the safety of consumers by testing the quality of food products.

1. ✖

To establish a framework for conducting non-clinical studies, ensuring the quality, integrity, and reproducibility of the data generated.

2. ✔

To certify the quality of pharmaceutical products after they have been manufactured.

3. ✖

To ensure the proper storage and disposal of hazardous waste generated in a laboratory.

4. ✖

Question Number : 102 Question Id : 8318969222 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The electrode potentials are calculated by _____.

Options :

- 1. ✖ Ilkovic equation
- 2. ✖ Stokes equation
- 3. ✔ Nernst equation
- 4. ✖ Ohm's Law

Question Number : 103 Question Id : 8318969223 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

ICH stands for _____.

Options :

1. ✖ International Committee on Harmonisation
2. ✖ International Conference on Harmonisation
3. ✔ International Council for Harmonisation
4. ✖ International Council of Harmony

Question Number : 104 Question Id : 8318969224 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Resolution of HPLC can not be modified by _____.

Options :

1. ✖ decreasing particle size
2. ✖ decreasing column diameter

3. ✖ changing flow rate

4. ✔ changing detector

Question Number : 105 Question Id : 8318969225 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The errors arising due to use of un-calibrated or improperly calibrated weights are known as:

Options :

1. ✖ Operational and personal errors

2. ✔ Instrumental and reagent errors

3. ✖ Errors of methods

4. ✖ Additive and proportional errors

Question Number : 106 Question Id : 8318969226 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

For the pH range of 2.8 to 4.6, which indicator should be preferred?

Options :

1. ✖ Phenolphthalein
2. ✖ Methyl red
3. ✖ Thymol blue
4. ✔ Bromophenol blue

Question Number : 107 Question Id : 8318969227 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The phenomenon called “levelling effect” for weak acids will be observed in _____ solvents.

Options :

1. ✖ aprotic
2. ✔ protophilic
3. ✖ protogenic
4. ✖ amphiprotic

Question Number : 108 Question Id : 8318969228 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

To obtain the best results in any of the quantitative TLC methods, the spots being used should have R_f values between _____.

Options :

1. ✖ 0.01 to 0.3
2. ✔ 0.3 to 0.7

3. ✖ 0.7 to 1.0

4. ✖ > 1.0

Question Number : 109 Question Id : 8318969229 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

As per the Indian Pharmacopoeia, the test organism for the microbiological assay of amikacin is _____.

Options :

1. ✖ *Saccharomyces cerevisiae*

2. ✖ *Micrococcus luteus*

3. ✖ *Klebsiella pneumoniae*

4. ✔ *Staphylococcus aureus*

Question Number : 110 Question Id : 8318969230 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Subpart C of Good Laboratory Practice (GLP) regulations, specifically under 21 CFR Part-58, focuses on _____.

Options :

- 1. ✖ test and control articles
- 2. ✖ organisational and personnel
- 3. ✖ testing facilities operations
- 4. ✔ Facilities

Question Number : 111 Question Id : 8318969231 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

The relationship between the atoms present in their ground-state and excited-state in flame photometry is given by _____ equation.

Options :

1. ✖ Arrhenius

2. ✖ Nernst

3. ✔ Boltzmann

4. ✖ de Broglie

Question Number : 112 Question Id : 8318969232 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following functional group(s) does not show two absorption peaks in IR spectroscopy:

Options :

1. ✖ Anhydride

2. ✖ Primary amine

3. ✖ Nitro

4. ✔ Secondary amine

Question Number : 113 Question Id : 8318969233 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

If 10 mL of 0.1 M sulphuric acid solution requires 20 mL of NaOH solution, then the normality of NaOH solution is:

Options :

1. ✔ 0.1 N

2. ✖ 0.05 N

3. ✖ 0.2 N

4. ✖ 0.4 N

Question Number : 114 Question Id : 8318969234 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

During titration of strong acid with a weak base, which one is correct with respect to conductance?

Options :

1. ✖ It increases till the end point
2. ✔ It decreases till the end point
3. ✖ End point cannot be determined using conductimetry
4. ✖ Conductance not altered

Question Number : 115 Question Id : 8318969235 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which substance is commonly used titrant in iodometric titrations?

Options :

1. ✖ Potassium iodide

- 2. ✓ Sodium thiosulfate
- 3. ✗ Iodine solution
- 4. ✗ Potassium permanganate

Question Number : 116 Question Id : 8318969236 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following is correct about robustness and ruggedness in method validation?

Options :

- 1. ✗ Robustness evaluates inter-laboratory variations, while ruggedness evaluates small changes in method parameters
- 2. ✓ Ruggedness evaluates inter-laboratory variations, while robustness evaluates small changes in method parameters

Robustness focuses on analyst variations, while ruggedness evaluates intra-laboratory changes

3. ✖

Ruggedness focuses on temperature changes, while robustness focuses on pressure changes

4. ✖

Question Number : 117 Question Id : 8318969237 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which of the following is a primary standard used in the calibration of spectrophotometers?

Options :

1.  Sodium dichromate
2.  Sodium chloride
3.  Potassium dichromate
4.  Potassium chloride

Question Number : 118 Question Id : 8318969238 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Find the correct sentence from the following about accuracy and precision in pharmaceutical analysis.

Options :

Accuracy refers to reproducibility, while precision refers to closeness to the true value

1. ✖

Accuracy refers to closeness to the true value, while precision refers to reproducibility

2. ✔

Both accuracy and precision refers to the same concept

3. ✖

Accuracy is related to random errors, while precision is related to systematic errors

4. ✖

Question Number : 119 Question Id : 8318969239 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Which guideline is commonly referred to for method validation in pharmaceutical analysis?

Options :

ICH Q3A

1. ✖

2. ✓ ICH Q2 (R1)

3. ✗ ICH Q1B

4. ✗ ICH Q4A

Question Number : 120 Question Id : 8318969240 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

What will be change observed in liquid chromatography with increased mobile phase flow rate?

Options :

1. ✗ Decreased pressure

2. ✗ Increased resolution

3. ✗ Increased sensitivity

4. ✓ Reduced retention times