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 :	Pharmacy 18th July 2022 Shift 1
Duration :	120
Total Marks :	120
Display Marks:	No
Share Answer Key With Delivery Engine :	Yes
Calculator :	None
Magnifying Glass Required? :	No
Ruler Required? :	No
Eraser Required? :	No
Scratch Pad Required? :	No
Rough Sketch/Notepad Required? :	No
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter :	No
Auto Save on Console?	Yes
Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No
Show Progress Bar :	No
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

Pharmacy

Section Id :	9003009

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Section Number :	1
Mandatory or Optional :	Mandatory
Number of Questions :	120
Section Marks :	120
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0

Question Number : 1 Question Id : 900300961 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which is a popular approach when the teaching of pharmacognosy is phytochemically biased

Options :

1. ✓ Biogenetic

2. ✗ Pharmacological

3. ✗ Morphological

4. ✗ Taxonomical

Question Number : 2 Question Id : 900300962 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Indonesian traditional medicine is called as

Options :

1. ✗ AYUSH

2. ✗ Kampo

3. ✓ Jamu

4. ✗ TGA

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Question Number : 3 Question Id : 900300963 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Who coined first the word "Pharmacognosy"?

Options :

1. ✗ R.N. Chopra

2. ✗ Schmiedeberg

3. ✓ Seydler

4. ✗ Charles

Question Number : 4 Question Id : 900300964 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Oils and resins are mainly obtained from the phyla of

Options :

1. ✗ Angiospermae

2. ✓ Gymnospermae

3. ✗ Pteridophyteae

4. ✗ Bryophytaea

Question Number : 5 Question Id : 900300965 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The plants which are not differentiated into root, stem and leaves are generally called as,

Options :

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1. ✓ Thallophyte

2. ✗ Bryophyte

3. ✗ Pteridophyte

4. ✗ Chrysophyte

Question Number : 6 Question Id : 900300966 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Family "Bombacaceae" belongs to which order

Options :

1. ✗ Celastrales

2. ✗ Rhamnales

3. ✗ Sapindales

4. ✓ Malvales

Question Number : 7 Question Id : 900300967 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which parts of the flower generally develops into the fruit

Options :

1. ✗ Calyx

2. ✗ Corolla

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3. ✗ Androecium

4. ✓ Gynaecium

Question Number : 8 Question Id : 900300968 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which is effective in the alleviation of the symptoms of Parkinson's disease

Options :

1. ✓ Hyoscine

2. ✗ Strychnine

3. ✗ Yohimbine

4. ✗ Cocaine

Question Number : 9 Question Id : 900300969 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

If there is no interaction between drug A and B, the isobole graph is a straight line parallel to the dose axis of drug B indicates

Options :

1. ✗ Synergism

2. ✓ Additivity

3. ✗ Antagonism

4. ✗ Inverse agonist

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Question Number : 10 Question Id : 900300970 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

"Decussate" refers to

Options :

1. ✗ The leaves form an alternate or helical pattern around the stem

2. ✗ A single leaf at each node and the leaves of two neighboring nodes are disposed in opposite positions

3. ✗ The leaves occur in pairs, with each leaf opposing the other at the nodes

4. ✓ A special case of opposite, where each successive pair of leaves is at right angle to the previous pair

Question Number : 11 Question Id : 900300971 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Saponins and triterpenoids are majorly found in the plants belong to which family

Options :

1. ✓ Apiaceae

2. ✗ Araliaceae

3. ✗ Asteraceae

4. ✗ Fabaceae

Question Number : 12 Question Id : 900300972 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following has vasodilatory effect

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Options :

1. ✗ Ergotoxine

2. ✗ Ephedrine

3. ✗ Nicotine

4. ✓ Papaverine

Question Number : 13 Question Id : 900300973 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The drug verapamil has been developed from which natural product based molecule

Options :

1. ✓ Papaverine

2. ✗ Morphine

3. ✗ Tubocurarine

4. ✗ Codeine

Question Number : 14 Question Id : 900300974 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which one is a synthetic growth inhibitor of plants

Options :

1. ✗ Kinetin

2. ✗ Zeatin

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3. ✓ Maleic hydrazide

4. ✗ Indole-3-acetic acid

Question Number : 15 Question Id : 900300975 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Lipase belongs to which group of enzymes

Options :

1. ✗ Oxidoreductases

2. ✗ Transferase

3. ✗ Lyases

4. ✓ Hydrolases

Question Number : 16 Question Id : 900300976 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which separation method exploits the differences in solubility of the components of a mixture in a particular solvent while isolation of the constituents

Options :

1. ✗ Sublimation

2. ✗ Steam distillation

3. ✗ Fractional liberation

4. ✓ Fractional crystallization

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Question Number : 17 Question Id : 900300977 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Olive oil contains

Options :

1. ✗ Arachidic acid

2. ✗ Caprylic acid

3. ✓ Stearic acid

4. ✗ Myristic acid

Question Number : 18 Question Id : 900300978 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In CAM plants, which one will be formed during darkness and drought conditions

Options :

1. ✓ Malic acid

2. ✗ 3-Phosphoglyceric acid

3. ✗ Oxaloacetic acid

4. ✗ Pyruvic acid

Question Number : 19 Question Id : 900300979 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Aromatic aminoacids in plants are mainly synthesized by

Options :

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1. ✓ S hikimic acid pathway

2. ✗ Embden–Meyerhoff pathway

3. ✗ Krebs cycle

4. ✗ Mevalonate pathway

Question Number : 20 Question Id : 900300980 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which is not a stress compound

Options :

1. ✗ Pterocarpans

2. ✗ Gossypol

3. ✗ Acridone alkaloid epoxides

4. ✓ Cinnamic aldehyde

Question Number : 21 Question Id : 900300981 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The safety of the candidate drug in human beings are studied in

Options :

1. ✗ Phase I

2. ✓ Phase II

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3. ✗ Phase III

4. ✗ Phase IV

Question Number : 22 Question Id : 900300982 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which one of the following drug has discovered by random screening

Options :

1. ✗ Morphine

2. ✗ Penicillin

3. ✓ Zidovudine

4. ✗ Paracetamol

Question Number : 23 Question Id : 900300983 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The drug identified by metabolite based study is

Options :

1. ✓ Isoniazid

2. ✗ Warfarin

3. ✗ Meperidine

4. ✗ Insulin

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Question Number : 24 Question Id : 900300984 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Woster's Steering Wheel trick is used to assign for a molecule's

Options :

1. ✗ D/L form

2. ✓ R/S form

3. ✗ d/l form

4. ✗ E/Z form

Question Number : 25 Question Id : 900300985 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is the strongest bond between drug and receptor?

Options :

1. ✗ Ionic bond

2. ✗ Hydrogen bond

3. ✓ Covalent bond

4. ✗ Vander Waal's bond

Question Number : 26 Question Id : 900300986 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Example for Schiff-base prodrug is

Options :

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1. ✗ Fosphenytoin

2. ✓ Progabide

3. ✗ Vigabatrine

4. ✗ Pivampicillin

Question Number : 27 Question Id : 900300987 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Among the following, which is not a prodrug

Options :

1. ✗ Omeprazole

2. ✗ Valacyclovir

3. ✗ Alprazolam

4. ✓ Propranolol

Question Number : 28 Question Id : 900300988 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

One of the following in not generally used in 2D QSAR

Options :

1. ✗ Molecular connectivity index

2. ✓ Molecular similarity index

3. ✗ Topological polar surface area

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4. ✗ Partition co-efficient

Question Number : 29 Question Id : 900300989 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In 3D QSAR, green region indicates favorable points for

Options :

1. ✓ Bulky groups

2. ✗ Smaller groups

3. ✗ Electron rich groups

4. ✗ Electron deficient groups

Question Number : 30 Question Id : 900300990 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The example for a local anaesthetic with a bicyclic ring is

Options :

1. ✗ Lidocaine

2. ✗ Dyclonine

3. ✗ Bupivacaine

4. ✓ Cocaine

Question Number : 31 Question Id : 900300991 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think

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Time : N.A Minimum Instruction Time : 0

Anxiolytic drug with no drowsiness is

Options :

1. ✗ Diazepam

2. ✗ Meprobamate

3. ✓ Buspirone

4. ✗ Alprazolam

Question Number : 32 Question Id : 900300992 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which is the drug of choice for grandmal epilepsy

Options :

1. ✗ Diazepam

2. ✗ Carbamazepine

3. ✓ Phenytoin

4. ✗ Lamotrigine

Question Number : 33 Question Id : 900300993 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The drug used orally to treat psychotic disorders with no extra-pyramidal symptom is

Options :

1. ✗ Haloperidol

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2. ✗ Prochlorperazine

3. ✓ Quetiapine

4. ✗ Molindone

Question Number : 34 Question Id : 900300994 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In which synthesis, Curtius rearrangement employed?

Options :

1. ✗ Pargyline

2. ✓ Tranylcypromine

3. ✗ Fluoxetine

4. ✗ Imipramine

Question Number : 35 Question Id : 900300995 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

One of the following is synthesized using Ullman's condensation reaction

Options :

1. ✓ Anthranilic acid derivatives

2. ✗ p-aminophenol derivatives

3. ✗ Aryl alkanoic acid derivatives

4. ✗ Pyrazolidinedione derivatives

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Question Number : 36 Question Id : 900300996 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The anti-histaminic drug with no heteroaryl ring system in it's structure is

Options :

1. ✗ Doxylamine

2. ✗ Triprolidine

3. ✓ Medrylamine

4. ✗ Meclizine

Question Number : 37 Question Id : 900300997 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Primary site of action of thiazide diuretics is

Options :

1. ✗ Proximal tubule

2. ✗ Loop of henle

3. ✓ Distal tubule

4. ✗ Convoluted tubule

Question Number : 38 Question Id : 900300998 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The anti-hypertensive drug with tetrazole nucleus is

Options :

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1. ✗ Diazoxide

2. ✓ Valsartan

3. ✗ Taludipine

4. ✗ Fosinopril

Question Number : 39 Question Id : 900300999 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The drug acts by sequestering the bile acid in the GIT is

Options :

1. ✗ Gemfibrosil

2. ✓ Colestipol

3. ✗ Probucol

4. ✗ Niacin

Question Number : 40 Question Id : 9003001000 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The anti-diabetic drug also effective in lowering the cholesterol level is

Options :

1. ✓ Rosiglitazone

2. ✗ Phenformin

3. ✗ Chlorpropamide

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4. ✗ Repaglinide

Question Number : 41 Question Id : 9003001001 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The main purpose of adding iron free citric acid in the limit test for Iron is

Options :

1. ✗ To make the medium acidic

2. ✓ To form complex metal cations other than Iron

3. ✗ To form complex with Iron

4. ✗ To reduce the Iron

Question Number : 42 Question Id : 9003001002 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In the original Gutzeit test, which is used

Options :

1. ✓ Filter paper with silver nitrate

2. ✗ Filter paper with silver chloride

3. ✗ Filter paper dipped in mercuric chloride

4. ✗ Filter paper dipped in mercuric nitrate

Question Number : 43 Question Id : 9003001003 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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Which one is systemic antacids among the following

Options :

1. ✗ Aluminium hydroxide

2. ✓ Sodium bicarbonate

3. ✗ Magnesium trisilicate

4. ✗ Magnesium hydroxide

Question Number : 44 Question Id : 9003001004 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which one is used as anticoagulant and expectorant among the following

Options :

1. ✗ Magnesium citrate

2. ✗ Potassium citrate

3. ✓ Sodium citrate

4. ✗ Aluminium citrate

Question Number : 45 Question Id : 9003001005 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The composition of Unna's paste is

Options :

1. ✓ Zinc oxide, gelatin, glycerin

2. ✗ Zinc oxide, starch, white soft paraffin

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3. ✗ Zinc oxide, starch, glycerin

4. ✗ Zinc oxide, gelatin, white soft paraffin

Question Number : 46 Question Id : 9003001006 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which one is used as skin protectant and anti-itching agent among the following

Options :

1. ✓ Calamine lotion

2. ✗ Calamine cream

3. ✗ Calamine Ointment

4. ✗ Calamine powder

Question Number : 47 Question Id : 9003001007 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Lugol's solution is

Options :

1. ✗ Weak Iodine solution

2. ✗ Strong Iodine solution

3. ✓ Aqueous Iodine solution

4. ✗ Povidone Iodine solution

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Question Number : 48 Question Id : 9003001008 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which is mainly used to decrease the demineralization of dental enamel

Options :

1. ✗ Sodium fluoride

2. ✓ Sodium monofluorophosphate

3. ✗ Stannous fluoride

4. ✗ Stannous monofluorophosphate

Question Number : 49 Question Id : 9003001009 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Aldosterone regulates the elimination of following

Options :

1. ✗ Sodium

2. ✓ Potassium

3. ✗ Calcium

4. ✗ Magnesium

Question Number : 50 Question Id : 9003001010 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which is effectively used in the treatment of hypochromic anemia

Options :

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1. ✗ Ferrous sulfate

2. ✗ Ferric sulfate

3. ✓ Ferrous gluconate

4. ✗ Ferric gluconate

Question Number : 51 Question Id : 9003001011 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following drug undergoes photochemical decomposition

Options :

1. ✗ Simuvastatin

2. ✗ Amphotericin-B

3. ✗ Miconazole

4. ✓ Chlorpromazine

Question Number : 52 Question Id : 9003001012 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The reaction kinetics of hydrolysis of a suspension of acetylsalicylic acid follows

Options :

1. ✓ Zero-order

2. ✗ First order

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3. ✗ Pseudo first-order

4. ✗ Complex order

Question Number : 53 Question Id : 9003001013 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In liquid formulations, the shelf-life of a formulation can be estimated by

Options :

1. ✗ Van't Hoff equation

2. ✗ Henderson–Hasselbalch equation

3. ✓ Arrhenius equation

4. ✗ Sorenson's equation

Question Number : 54 Question Id : 9003001014 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is not the fundamental property of powder

Options :

1. ✗ Particle size distribution

2. ✓ Particle density

3. ✗ Particle shape

4. ✗ Particle volume

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Question Number : 55 Question Id : 9003001015 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The Carr's compressibility index value for talc is 49. The flow of talc should be

Options :

1. ✗ Excellent

2. ✗ Fair

3. ✗ Poor

4. ✓ Very very poor

Question Number : 56 Question Id : 9003001016 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Flow exhibited by concentrated deflocculated suspension is

Options :

1. ✗ Newtonian flow

2. ✗ Plastic flow

3. ✗ Pseudoplastic flow

4. ✓ Dilatant flow

Question Number : 57 Question Id : 9003001017 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Surface tension of a liquid is determined using

Options :

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1. ✗ Pycnometer

2. ✓ Stalagmometer

3. ✗ Rheometer

4. ✗ Occulometer

Question Number : 58 Question Id : 9003001018 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Antifoaming agents usually have a HLB value in the range of

Options :

1. ✓ 0–3

2. ✗ 6–9

3. ✗ 9–12

4. ✗ 13–16

Question Number : 59 Question Id : 9003001019 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The potential between the surface of the tightly bound layer and the electroneutral region is termed as

Options :

1. ✗ Nernst potential

2. ✗ Stern potential

3. ✗ Streaming potential

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4. ✓ Zeta potential

Question Number : 60 Question Id : 9003001020 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

EDTA is an example of

Options :

1. ✗ Unidentate ligand

2. ✗ Bidentate ligand

3. ✗ Tetradentate ligand

4. ✓ Hexadentate ligand

Question Number : 61 Question Id : 9003001021 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Dynamic Vapor Sorption Analysis is mainly used for the determination of

Options :

1. ✗ Aqueous solubility

2. ✗ Non-aqueous solubility

3. ✓ Hygroscopicity

4. ✗ Stability

Question Number : 62 Question Id : 9003001022 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is the pKa of chlordiazepoxide, if it's So = 2 mg mL^{-1}, St at pH 4 = 146 mg mL^{-1}

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Options :

1. ✓ 4.79

2. ✗ 4.81

3. ✗ 5.79

4. ✗ 5.81

Question Number : 63 Question Id : 9003001023 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is the pH of a 0.1 M solution of diclofenac sodium (pKa 4.0)?

Options :

1. ✗ 2.5

2. ✗ 3.48

3. ✓ 8.5

4. ✗ 4.8

Question Number : 64 Question Id : 9003001024 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Amorphous materials have appreciably higher solubilities and faster dissolution rates

than their crystalline equivalents due to

Options :

1. ✓ Amorphous form have no lattice energy and are unstable

2. ✗ Amorphous form have no lattice energy and are stable

3. ✗ Amorphous form have lattice energy and are unstable

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4. ✗ Amorphous form have lattice energy and are stable

Question Number : 65 Question Id : 9003001025 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

1 N of sulfuric acid solution represents

Options :

1. ✗ 98 g of H_2SO_4 dissolved in 1 L of solution

2. ✓ 49 g of H_2SO_4 dissolved in 1 L of solution

3. ✗ 9.8 g of H_2SO_4 dissolved in 1 L of solution

4. ✗ 4.9 g of H_2SO_4 dissolved in 1 L of solution

Question Number : 66 Question Id : 9003001026 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

How much amount of drug substance will be needed to dispense 240 mL of a 10% w/v Solution?

Options :

1. ✓ 24 g

2. ✗ 48 g

3. ✗ 2.4 g

4. ✗ 4.8 g

Question Number : 67 Question Id : 9003001027 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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Propellant 114 refers to which of the following?

Options :

1. ✗ Propane

2. ✓ Dichlorodifluoromethane

3. ✗ Dichlorotetrafluoroethane

4. ✗ Trichloromonofluoromethane

Question Number : 68 Question Id : 9003001028 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Tag open-cup apparatus is used to determine which of the following?

Options :

1. ✓ Flammability

2. ✗ Density

3. ✗ Moisture content

4. ✗ Vapor pressure

Question Number : 69 Question Id : 9003001029 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is used as a plasma substitute?

Options :

1. ✓ Dextran

2. ✗ Human thrombin

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3. ✗ Human fibrinogen

4. ✗ Dried human plasma

Question Number : 70 Question Id : 9003001030 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following in not an example for impregnated bandage?

Options :

1. ✗ Plaster of Paris

2. ✗ Zinc paste

3. ✗ Zinc paste and coal tar

4. ✓ Triangular calico

Question Number : 71 Question Id : 9003001031 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Sterility test is performed by

Options :

1. ✗ Pyrogen test

2. ✗ LAL test

3. ✗ Rabbit test

4. ✓ Direct inoculation test

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Question Number : 72 Question Id : 9003001032 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Ointments intended to produce a systemic action are called as

Options :

1. ✗ Epidermic ointments

2. ✓ Diadermic ointments

3. ✗ Endodermic ointments

4. ✗ Physiologic ointments

Question Number : 73 Question Id : 9003001033 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following semisolid preparation is heated before use?

Options :

1. ✗ Gels

2. ✗ Ointments

3. ✓ Poultice

4. ✗ Creams

Question Number : 74 Question Id : 9003001034 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In which tooth powder sodium benzoate act as a solvent

Options :

1. ✗ Ammoniated toothpowder

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2. ✗ Fluoride toothpowder

3. ✗ Antacid toothpowder

4. ✓ Tartar removing toothpowder

Question Number : 75 Question Id : 9003001035 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In hair tonic, which is being used as stimulant of sebaceous gland?

Options :

1. ✗ Chloral hydrate

2. ✗ Formic acid

3. ✓ Lecithin

4. ✗ Chloro thymol

Question Number : 76 Question Id : 9003001036 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

BCS Class III drugs are

Options :

1. ✗ High solubility / high permeability

2. ✗ Low solubility / high permeability

3. ✓ High solubility / low permeability

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4. ✗ Low solubility / low permeability

Question Number : 77 Question Id : 9003001037 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The Vd of fluoxetine is 3000 litres. Calculate the amount of drug in the body when the plasma concentration is 1 ng/ml.

Options :

1. ✓ 3 mg

2. ✗ 0.3 mg

3. ✗ 30 mg

4. ✗ 300 mg

Question Number : 78 Question Id : 9003001038 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which law states that 'the rate of diffusion is proportional to both the surface area and concentration difference and is inversely proportional to the thickness of the membrane'?

Options :

1. ✓ Fick's law

2. ✗ Avagadro's law

3. ✗ Hook's law

4. ✗ Pascal's law

Question Number : 79 Question Id : 9003001039 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think

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Time : N.A Minimum Instruction Time : 0

Following intravenous administration, drugs are distributed fastest to

Options :

1. ✗ The skin, kidney and brain

2. ✓ The liver, kidney and brain

3. ✗ The liver, adipose,and brain

4. ✗ The liver, kidney and adipose

Question Number : 80 Question Id : 9003001040 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Drug showing zero order kinetic of elimination

Options :

1. ✗ Are more common than those showing first order kinetic

2. ✓ Show plot of drug concentration vs time (linear Plot)

3. ✗ Decrease in concentration exponentially with time

4. ✗ Have half-life independent of dose

Question Number : 81 Question Id : 9003001041 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Elimination after 4 half-lives in first order kinetics is

Options :

1. ✗ 84%

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2. ✓ 93%

3. ✗ 80%

4. ✗ 4%

Question Number : 82 Question Id : 9003001042 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A drug that reverses plasma-protein binding is often referred as

Options :

1. ✓ Displacer

2. ✗ Solvate

3. ✗ Carrier substance

4. ✗ Protein hydrolysate

Question Number : 83 Question Id : 9003001043 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is not a pharmacokinetic parameter that describes the plasma level time curve?

Options :

1. ✗ t_{max}

2. ✗ c_{max}

3. ✗ Area under curve

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4. ✓ Minimum effective concentration

Question Number : 84 Question Id : 9003001044 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In non-compartmental analysis, Mean residence time is equal to

Options :

1. ✓ The area under the first moment curve/area under the zero moment curve

2. ✗ The area under the zero moment's curve/area under the first moment curve

3. ✗ 1 / Area under the first-moment curve

4. ✗ 1 / Area under the zero moment curve

Question Number : 85 Question Id : 9003001045 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following process is also called "cell drinking"?

Options :

1. ✓ Pinocytosis

2. ✗ Phagocytosis

3. ✗ Convective transport

4. ✗ Active transport

Question Number : 86 Question Id : 9003001046 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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A normal sized adult having hepatic clearance of a drug whose metabolism is limited by the rate of blood flow to the liver would be

Options :

1. ✗ 60 ml/min

2. ✗ 120 ml/min

3. ✗ 650 ml/min

4. ✓ 1500 ml/min

Question Number : 87 Question Id : 9003001047 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following neurotransmitter interacts with guanethidine?

Options :

1. ✗ Acetylcholine

2. ✗ Epinephrine

3. ✗ Dopamine

4. ✓ Nor-epinephrine

Question Number : 88 Question Id : 9003001048 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following drug is used to diagnose myasthenia gravis?

Options :

1. ✗ Atropine

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2. ✗ Neostigmine

3. ✗ Bethanechol

4. ✓ Edrophonium

Question Number : 89 Question Id : 9003001049 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A drug that acts at pre-junctional α2-adrenoceptors and is used to treat hypertension is

Options :

1. ✓ Clonidine

2. ✗ Metaprolol

3. ✗ Dobutamine

4. ✗ Dopamine

Question Number : 90 Question Id : 9003001050 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is a common type of medication used for idiopathic hypercalciuria with complains of sharp pain in the flanks, dysuria and frequency?

Options :

1. ✗ Loop diuretics

2. ✗ Carbonic anhydrase inhibitors

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3. ✓ Thiazide diuretics

4. ✗ Potassium-sparing diuretics

Question Number : 91 Question Id : 9003001051 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is the common side effect of amiloride while treating edema caused by cirrhosis?

Options :

1. ✗ Hypernatremia

2. ✗ Hyperphosphatemia

3. ✗ Hypermagnesemia

4. ✓ Hyperkalemia

Question Number : 92 Question Id : 9003001052 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following drug would be best to quickly control the condition of ventricular tachycardia following an acute myocardial infarction?

Options :

1. ✗ Dobutamine

2. ✗ Digitalis

3. ✗ Quinidine

4. ✓ Lidocaine

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Question Number : 93 Question Id : 9003001053 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following drug might be used as an adjunct to quinidine in the treatment of sporadic arrhythmias type of atrial flutter?

Options :

1. ✓ Digitalis

2. ✗ Lidocaine

3. ✗ Procainamide

4. ✗ Nifedipine

Question Number : 94 Question Id : 9003001054 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What medication could the physician recommend for a 36-year-old man who tried nicotine patches in order to quit cigarettes but with no success?

Options :

1. ✗ Mirtazapine

2. ✗ Citalopram

3. ✗ Phenelzine

4. ✓ Bupropion

Question Number : 95 Question Id : 9003001055 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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Which of the following is an absolute contraindication to opioid such as morphine use?

Options :

1. ✓ Closed head injury

2. ✗ Myocardial infarction

3. ✗ Renal colic

4. ✗ Biliary colic

Question Number : 96 Question Id : 9003001056 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following describes the mechanism of the party drug "methylenedioxymethamphetamine"?

Options :

1. ✗ Antagonistic activity at the *N*-methyl-D-aspartate (NMDA) receptor

2. ✗ Binding to the cannabinol CB1 receptor

3. ✓ Increased release of dopamine and nor-epinephrine

4. ✗ Mimics the action of acetylcholine

Question Number : 97 Question Id : 9003001057 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The exact MOA of sumatriptan is

Options :

1. ✗ 5-HT1A agonist

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2. ✓ 5-HT1D agonist

3. ✗ 5-HT3 antagonist

4. ✗ 5-HT2A antagonist

Question Number : 98 Question Id : 9003001058 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following would be the best course of treatment for the patient with moderate myocardial infarction due to occlusion of the left descending coronary artery?

Options :

1. ✓ Reteplase

2. ✗ Heparin

3. ✗ Eptifibatide

4. ✗ Lovastatin

Question Number : 99 Question Id : 9003001059 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is the mechanism of action of synthetic erythropoietin?

Options :

1. ✓ It increases proliferation of erythroid precursor cells in the bone marrow

2. ✗ It decreases the release of reticulocytes from the bone marrow

3. ✗ It decreases hemoglobin synthesis

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4. ✗ It is independent on the amount of iron stored in the body

Question Number : 100 Question Id : 9003001060 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is the purpose of folic acid supplementation during pregnancy?

Options :

1. ✗ It increases oxygen-carrying capacity of the blood

2. ✓ It decreases the risk of neural tube defects

3. ✗ It aids in bone growth of the maturing fetus

4. ✗ It stimulates myelopoiesis of erythroid progenitor cells

Question Number : 101 Question Id : 9003001061 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Aprepitant belongs to which of the following?

Options :

1. ✗ Cholinergic antagonist

2. ✗ Dopaminergic agonist

3. ✗ Histamine H1-receptor antagonist

4. ✓ Substance P antagonist

Question Number : 102 Question Id : 9003001062 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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Food reduces first-pass extraction and metabolism of which drug

Options :

1. ✓ Hydralazine

2. ✗ Rifampin

3. ✗ Glipizide

4. ✗ Furosemide

Question Number : 103 Question Id : 9003001063 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which is correct w.r.t the drug Isoniazid

Options :

1. ✗ Food raises gastric pH, enhances dissolution and absorption

2. ✓ Food raises gastric pH, preventing dissolution and absorption

3. ✗ Food decreases gastric pH, enhances dissolution and absorption

4. ✗ Food decreases gastric pH, preventing dissolution and absorption

Question Number : 104 Question Id : 9003001064 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

ADR results in persistent or significant disability can be considered as

Options :

1. ✗ Minor

2. ✗ Moderate

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3. ✓ Serious

4. ✗ Serious lethal

Question Number : 105 Question Id : 9003001065 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Muscle pain associated with statins are example for

Options :

1. ✗ Pharmacologic ADR

2. ✗ Intolerance ADR

3. ✗ Allergic ADR

4. ✓ Idiosyncratic ADR

Question Number : 106 Question Id : 9003001066 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Co-administration of probenecid with penicillin in order to delay renal excretion of penicillin is an example for

Options :

1. ✗ ADME - interactions based on drug absorption

2. ✗ ADME - interactions based on drug distribution

3. ✓ ADME - interactions based on drug excretion

4. ✗ ADME - interactions based on drug metabolism

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Question Number : 107 Question Id : 9003001067 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The required dosage adjustment in patients with Chronic Kidney Disease whose GFR is 10 to 50 mL/min for Captopril is

Options :

1. ✘ 100%

2. ✔ 75%

3. ✘ 50%

4. ✘ 25%

Question Number : 108 Question Id : 9003001068 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which drug requires folinic acid administration to prevent severe toxicity

Options :

1. ✘ Digoxin

2. ✘ Gentamicin

3. ✘ Amikacin

4. ✔ Methotrexate

Question Number : 109 Question Id : 9003001069 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In which type of medication review, Technical review of patient's list of medicines will be done

Options :

1. ✔ Level 1

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2. ✗ Level 2

3. ✗ Level 3

4. ✗ Level 4

Question Number : 110 Question Id : 9003001070 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The result of the arithmetical operation 21.1 X 0.029 X 83.2 expressed to the correct number of significant figures is

Options :

1. ✗ 50.91008

2. ✗ 50.91

3. ✗ 50.910

4. ✓ 51

Question Number : 111 Question Id : 9003001071 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In an experiment, 20 ml of a deci-normal HCl solution was added to 10 ml of a deci-normal $AgNO_3$ solution. AgCl was precipitated out and the excess acid was titrated against a deci- normal NaOH solution. The volume of NaOH required is

Options :

1. ✓ 10 ml

2. ✗ 5 ml

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3. ✗ 20 ml

4. ✗ 30 ml

Question Number : 112 Question Id : 9003001072 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In which method, nitrobenzene is used in order to prevent interaction of AgCl with ferric thiocyanate

Options :

1. ✗ Fajan's method

2. ✗ Mohr's method

3. ✗ Volhard's method

4. ✓ Modified volhard's method

Question Number : 113 Question Id : 9003001073 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The technique in which the quantity of electrical charge required to convert an analyte quantitatively to a different oxidation state is known as

Options :

1. ✗ Potentiometry

2. ✗ Polarography

3. ✓ Coulometry

4. ✗ Conductometry

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Question Number : 114 Question Id : 9003001074 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In the EMR, the frequency range 7.5×10^{15} to 3.75×10^{14} Hz corresponds to

Options :

1. ✓ Visible radiation

2. ✗ IR radiation

3. ✗ UV radiation

4. ✗ Microwave radiation

Question Number : 115 Question Id : 9003001075 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The absorption of IR radiation is accomplished by transitions involving

Options :

1. ✗ Electronic levels

2. ✓ Vibrational levels

3. ✗ Nuclear spin levels

4. ✗ Electron spin levels

Question Number : 116 Question Id : 9003001076 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is the nature of the analyte whose Rf value is 0.9 while using methanol:water (4:6)?

Options :

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1. ✗ Non-polar

2. ✗ Semi-polar

3. ✓ Polar

4. ✗ Neutral

Question Number : 117 Question Id : 9003001077 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

How will you mitigate, if the analyte runs as a streak rather than a spot in TLC?

Options :

1. ✗ Change the stationary phase

2. ✓ Dilute the sample

3. ✗ Concentrate the sample

4. ✗ Change the mobile phase

Question Number : 118 Question Id : 9003001078 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Schedule E of DCA 1940 is related to

Options :

1. ✗ List of biological products governed by special provisions

2. ✗ List of other special products governed by special provisions

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3. ✓ List of poisonous substance under Ayurvedic, Siddha and Unani medicines

4. ✗ List of bacterial vaccines, viral vaccines, antisera, diagnostic antigens

Question Number : 119 Question Id : 9003001079 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Form 46 is mainly used for

Options :

1. ✗ Permission to import finished formulation of a new drug

2. ✗ Permission to import new bulk drug substance

3. ✓ Permission for manufacture of new drug formulation

4. ✗ Permission for manufacture of new bulk drug substance

Question Number : 120 Question Id : 9003001080 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The area requirement for the manufacturing of Opthalmic preparations is

Options :

1. ✓ Minimum 25 square meters for basic installation and 10 square meters for ancillary area

2. ✗ Minimum 30 square meters for basic installation and 10 square meters for ancillary area

3. ✗ Minimum 25 square meters for basic installation and 15 square meters for ancillary area

4. ✗ Minimum 30 square meters for basic installation and 15 square meters for ancillary area

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