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

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

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 :

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

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

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

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

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

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 :

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

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

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 :

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

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

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

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

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 :

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

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

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

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

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 :

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

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

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 :

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

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}

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

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

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

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

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

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

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

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%

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

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

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

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

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

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

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

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

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

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

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

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

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 AgNO3 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

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

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 :

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

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