

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

7/19/22, 3:41 PM

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

7/52

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. Pterocarpan
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 :

7/19/22, 3:41 PM

- Fosphenytoin
- Progabide
- Vigabatrine
- 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 :

- Omeprazole
- Valacyclovir
- Alprazolam
- 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 is not generally used in 2D QSAR

Options :

- Molecular connectivity index
- Molecular similarity index
- Topological polar surface area

13/52

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 alkanolic 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. Simvastatin
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. ✘ Tetridentate 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 $S_0 = 2 \text{ mg mL}^{-1}$, S_t 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 H₂SO₄ dissolved in 1 L of solution
2. ✔ 49 g of H₂SO₄ dissolved in 1 L of solution
3. ✖ 9.8 g of H₂SO₄ dissolved in 1 L of solution
4. ✖ 4.9 g of H₂SO₄ 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 :

- Propane
- Dichlorodifluoromethane
- Dichlorotetrafluoroethane
- 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 :

- Flammability
- Density
- Moisture content
- 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 :

- Dextran
- 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 is 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. $1 / \text{Area under the first-moment curve}$
4. $1 / \text{Area under the zero moment curve}$

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 α_2 -adrenoceptors and is used to treat hypertension is

Options :

1. ✔ Clonidine
2. ✖ Metoprolol
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. ✘ Hypermnatremia
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. Phenezine
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-HT_{1A} 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 folic 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 $21.1 \times 0.029 \times 83.2$ 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 Ophthalmic 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