

# Telangana State Council 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.

<b>Question Paper Name :</b>	Pharmacy 11th Aug 2021 Shift 1
<b>Subject Name :</b>	Pharmacy
<b>Creation Date :</b>	2021-08-11 12:28:39
<b>Duration :</b>	120
<b>Total Marks :</b>	120
<b>Display Marks:</b>	Yes
<b>Calculator :</b>	None
<b>Magnifying Glass Required? :</b>	No
<b>Ruler Required? :</b>	No
<b>Eraser Required? :</b>	No
<b>Scratch Pad Required? :</b>	No
<b>Rough Sketch/Notepad Required? :</b>	No
<b>Protractor Required? :</b>	No
<b>Show Watermark on Console? :</b>	Yes
<b>Highlighter :</b>	No
<b>Auto Save on Console? :</b>	Yes

## Pharmacy

<b>Group Number :</b>	1
<b>Group Id :</b>	63643122
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No

<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	120
<b>Is this Group for Examiner? :</b>	No

## Pharmacy

<b>Section Id :</b>	63643141
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	120
<b>Number of Questions to be attempted :</b>	120
<b>Section Marks :</b>	120
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	63643141
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 6364312521 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Surface preparation of vasaka leaves shows

**Options :**

1. ✘ Unicellular trichomes and paracytic stomata
2. ✔ Caryophyllaceous stomata and covering and sessile glandular trichomes
3. ✘ Actinocytic stomata and lignified trichomes

4. ✘ Anisocytic stomata and glandular trichomes with a bicellular head and stalk

Question Number : 2 Question Id : 6364312522 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following pair is a common example for two different systems of classification of crude drugs

Options :

1. ✘ Aloes, Datura

2. ✘ Strophanthus, Ipecac

3. ✔ Cassia, Cinnamon

4. ✘ Kurchi, Liquorice

Question Number : 3 Question Id : 6364312523 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Asexual method for vegetative propagation is adopted for cultivation of

Options :

1. ✘ Fennel

2. ✘ Senna

3. ✘ Isapgol

4. ✔ Saffron

**Question Number : 4 Question Id : 6364312524 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Flannel bandage is made up of

Options :

1. ✘ Silk and absorbent cotton

2. ✔ Entirely wool

3. ✘ Glass wool and silk

4. ✘ Silk, cotton and wool

**Question Number : 5 Question Id : 6364312525 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Trinitrophenol solution precipitates the solution of

**Options :**

1. ✓ Gelatin
2. ✗ Acacia
3. ✗ Cellulose
4. ✗ Benzoin

**Question Number : 6 Question Id : 6364312526 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Which of the following is obtained from brown sea-weed (Algae)

**Options :**

1. ✗ Agar
2. ✗ Vegetable gelatin
3. ✓ Alginic acid
4. ✗ Carrageenan

**Question Number : 7 Question Id : 6364312527 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical**

Correct Marks : 1 Wrong Marks : 0

Locust bean gum has a mannose: galactose ratio of approximately

Options :

1. ✘ 1:2
2. ✔ 4:1
3. ✘ 1:4
4. ✘ 2:1

Question Number : 8 Question Id : 6364312528 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In atropine, nitrogen exists in the form of

Options :

1. ✘ Primary amine
2. ✘ Secondary amine
3. ✘ Quarternary amine

4. ✓ Tertiary amine

Question Number : 9 Question Id : 6364312529 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Which one of the following is optically inactive

Options :

1. ✗ Morphine

2. ✗ Codeine

3. ✓ Apaverine

4. ✗ Narcotine

Question Number : 10 Question Id : 6364312530 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The optimal pH range for a typical plant tissue culture medium is

Options :

1. ✗ 3.5 to 4.8

2. ✓ 5.2 to 5.8

3. ✘ 6.5 to 7.2

4. ✘ 7.5 to 8.5

**Question Number : 11 Question Id : 6364312531 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Charantin is a

**Options :**

1. ✘ Sapogenin

2. ✘ Flavanoid

3. ✔ Steroidal saponin

4. ✘ Phenolic glycoside

**Question Number : 12 Question Id : 6364312532 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Cascara consists of dried bark of

**Options :**

1. ✘ Rheum palmatum



2. ✓ Rhamnus purshiana

3. ✗ Rheum emodi

4. ✗ Remijia pedunculata

**Question Number : 13 Question Id : 6364312533 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Annatto is used as

**Options :**

1. ✓ Colouring agent for foods

2. ✗ Perfume

3. ✗ Anti-cancer agent

4. ✗ Diaphoretic

**Question Number : 14 Question Id : 6364312534 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Which one of the following cannot be used in tanning

Options :

1. ✘ Gallotannin
2. ✔ Ipecacuanhic acid
3. ✘ Chebulinic acid
4. ✘ Ellagitannin

Question Number : 15 Question Id : 6364312535 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arjuna is adulterated with

Options :

1. ✘ Terminalia belerica
2. ✘ Terminalia chebula
3. ✔ Terminalia tomentosa
4. ✘ Cinchona officinalis

Question Number : 16 Question Id : 6364312536 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Which one of the following is used as suppository base

Options :

1. ✓ Theobroma oil
2. ✗ Bees wax
3. ✗ Suet
4. ✗ Olive oil

Question Number : 17 Question Id : 6364312537 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Esters of cholesterol with carnaubic acid and oleic acid are present

Options :

1. ✗ Spermaceti
2. ✗ Lard
3. ✗ Lecithin

4. ✓ Lanolin

Question Number : 18 Question Id : 6364312538 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Which of the following is obtained by distillation of a oleo-resin

Options :

1. ✗ Ipomoea

2. ✓ Colophony

3. ✗ Guggul

4. ✗ Shellac

Question Number : 19 Question Id : 6364312539 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Teniposide is a derivative of

Options :

1. ✗ Boswellic acid

2. ✗ Jalapin

3. ✓ Podophyllotoxin

4. ✗ Madecassoside

**Question Number : 20 Question Id : 6364312540 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Camphor is a

Options :

1. ✓ Bicyclic monoterpene ketone

2. ✗ Bicyclic sesquiterpene alcohol

3. ✗ Bicyclic monoterpene alcohol

4. ✗ Monocyclic monoterpene ketone

**Question Number : 21 Question Id : 6364312541 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Twelve ATP molecules are produced in the following

Options :

1. ✘ Glycolysis of glucose under anaerobic condition
2. ✘ Glycolysis of glucose under aerobic condition
3. ✔ On oxidation of a molecule of acetyl CoA in citric acid cycle
4. ✘ On conversion of pyruvate to acetyl CoA

Question Number : 22 Question Id : 6364312542 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The enzyme which is involved in conversion of acetoacetyl CoA to acetyl CoA

Options :

1. ✘ Thiophorase
2. ✔ Thiolase
3. ✘ Acetyl CoA-ACP transacylase
4. ✘  $\beta$ - Hydroxybutyrate dehydrogenase

Question Number : 23 Question Id : 6364312543 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Gout is caused by defective metabolism of

Options :

1. ✓ Purine
2. ✗ Pyrimidine
3. ✗ Glucose
4. ✗ Protein

Question Number : 24 Question Id : 6364312544 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Bioisosteres are

Options :

1. ✗ Non-superimposable mirror images
2. ✓ Molecules with physical and chemical similarities producing broadly similar biological properties
3. ✗ Molecules with opposing biological properties
4. ✗ Diastereomers with different biological activities

Question Number : 25 Question Id : 6364312545 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In barbiturates, replacement of C2 oxygen with sulphur as in case of thiopental results in

Options :

1. ✘ Increase in duration of action
2. ✘ Decrease in lipid solubility
3. ✔ Rapid onset of action
4. ✘ Increase in metabolic conversion to  $\beta$ - hydroxy compound

Question Number : 26 Question Id : 6364312546 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Choose the correct statement with regard to tricyclic antidepressants (TCAs)

Options :

1. ✘ In TCAs, the central 7- membered ring should be heterocyclic



2. ✘ The side chain attached to the central 7- membered ring must be two carbon atoms

2. ✘

The tricyclic ring system has little significance with regard to selectivity for inhibiting NET (Norepinephrine reuptake transporter) or SERT (Serotonin Reuptake Transporter)

3. ✔

Replacement of central 7- membered ring with 6- membered ring (as in phenothiazines) results in increased antidepressant activity

4. ✘

Question Number : 27 Question Id : 6364312547 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Benzocaine is synthesized using

Options :

1. ✔ p-Aminobenzoic acid and ethanol

2. ✘ p-Aminobenzoic acid and methanol

3. ✘ m-Aminobenzoic acid and ethanol

4. ✘ m-Aminobenzoic acid and methanol

Question Number : 28 Question Id : 6364312548 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Which of the following is not an anti-lipidemic agent

Options :

1. ✘ Nicotinic acid
2. ✘ Rosuvastatin
3. ✔ Hydralazine
4. ✘ Cholestyramine

Question Number : 29 Question Id : 6364312549 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Chemical name of Diphenhydramine hydrochloride

Options :

1. ✔ 2- (Diphenyl methoxy) - N, N - dimethyl ethanamine hydrochloride
2. ✘ 2- (Diphenyl methoxy) - N, N - dimethyl propanamine hydrochloride

3. ✘ 2- (Diphenyl ethoxy) - N, N - diethyl ethanamine hydrochloride

4. ✘ 2- (Diphenyl methoxy) - N, N - diethyl propanamine hydrochloride

**Question Number : 30 Question Id : 6364312550 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Ciprofloxacin is

Options :

1. ✘ Cephalosporin

2. ✘ Macrolide antibiotic

3. ✔ Fluoroquinolone

4. ✘ An antifungal antibiotic

**Question Number : 31 Question Id : 6364312551 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The diacetyl derivative of morphine

Options :

1. ✘ Codeine

2. ✘ Meperidine

3. ✔ Heroin

4. ✘ Pentazocine

**Question Number : 32 Question Id : 6364312552 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Choose the correct statement with regard to sulfonylurea class of hypoglycemic

Options :

1. ✘ Compounds with small alkyl groups ( methyl/ethyl) on nitrogen are active

2. ✘ Compounds with bulky substituents are less active than cycloalkyl substituents

3. ✘ Compounds with heterocyclic ring on nitrogen are more active

4. ✔ Compounds with bulky aliphatic substituent are active

**Question Number : 33 Question Id : 6364312553 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

\_\_\_\_\_ is not an antiplatelet drug

Options :

1. ✘ Dipyridamole
2. ✘ Triflusal
3. ✔ Streptokinase
4. ✘ Aspirin

Question Number : 34 Question Id : 6364312554 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Chloroacetaldehyde both neurotoxic and nephrotoxic, is the major metabolite formed from

Options :

1. ✔ Cyclophosphamide
2. ✘ Chlorambucil
3. ✘ Procarbazine

#### 4. ✘ Carboplatin

Question Number : 35 Question Id : 6364312555 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In case of 4-substituted quinoline antimalarials, one of the following is not true

Options :

1. ✘ Quinine and its isomer quinidine have anti malarial activity
2. ✘ Quinuclidine portion of quinine is not essential for activity
3. ✘ Quinidine has undesirable cardiac side effects
4. ✔ Quinine is (+) isomer, where as quinidine (-) isomer.

Question Number : 36 Question Id : 6364312556 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

#### Clofibrate

Options :

1. ✘ Lowers both plasma concentration of cholesterol and triglycerides
2. ✘ Lowers only plasma triglycerides

Lowers plasma concentration of cholesterol only, but doesn't lower triglyceride

3. ✓ levels

Lowers plasma concentration of cholesterol and elevates the plasma triglyceride

4. ✗ levels

**Question Number : 37 Question Id : 6364312557 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Choose the correct statement

Options :

1. ✗ Ergosterol is Vitamin D3

2. ✓ Calcitriol is the active form of Vitamin D

3. ✗ Ergocalciferol is converted to ergosterol on photoactivation

4. ✗ Ergocalciferol is converted to vitamin D3 on UV-irradiation

**Question Number : 38 Question Id : 6364312558 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

In the limit test for Arsenic, yellow stain is produced due to the reaction of mercuric chloride with \_\_\_\_\_

Options :

1. ✘ Arsenic acid
2. ✔ Arsine
3. ✘ Arsenious acid
4. ✘ Arsenic trioxide

Question Number : 39 Question Id : 6364312559 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

First step in the preparation of ferric ammonium citrate is

Options :

1. ✘ Reaction of ferric hydroxide with ammonia
2. ✔ Reaction of ferric sulphate with sodium hydroxide
3. ✘ Reaction of ferric sulphate with citric acid
4. ✘ Reaction of ferrous sulphate with citric acid



Question Number : 40 Question Id : 6364312560 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Choose the incorrect pair

Options :

1. ✘ Sodium chloride : Electrolyte replenisher
2. ✔ Zinc Chloride : Antacid
3. ✘ Ferrous sulphate : Haematinic
4. ✘ Calamine : Topical protective

Question Number : 41 Question Id : 6364312561 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Concentration of iodine in Lugols solution

Options :

1. ✘ 2%
2. ✘ 3%
3. ✔ 5%
4. ✘ 10%

Question Number : 42 Question Id : 6364312562 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following compounds exhibit absorption of radiation due to  $n \rightarrow \pi^*$  transitions

Options :

1. ✘ Alicyclic compounds
2. ✘ Acyclic conjugated polyenes
3. ✘ Aromatic hydrocarbons
4. ✔ Unsaturated carbonyl compounds

Question Number : 43 Question Id : 6364312563 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

\_\_\_\_\_ is used as mulling agent for preparation sample in IR spectroscopy

Options :

1. ✘ Glycerine

2. ✓ Nujol

3. ✗ Chloroform

4. ✗ Ethanol

**Question Number : 44 Question Id : 6364312564 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

The metal, which is not satisfactory for use as indicator electrode in potentiometric

Titration

**Options :**

1. ✗ Ag

2. ✗ Hg

3. ✓ Fe

4. ✗ Cu

**Question Number : 45 Question Id : 6364312565 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical**

Correct Marks : 1 Wrong Marks : 0

Choose the correct statement with reference to chromatography

Options :

1. ✓ The number of theoretical plates increases with decrease in particle size
2. ✗ The number of theoretical plates decreases with an increase in column length
3. ✗ In GC, thermal conductivity detectors are not useful
4. ✗ GLC is useful only for quantitative analysis

Question Number : 46 Question Id : 6364312566 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Phenolphthalin is used as indicator in the titration of

Options :

1. ✗ Acetic acid with ammonia solution
2. ✓ Acetic acid with sodium hydroxide
3. ✗ Hydrochloric acid with ammonium hydroxide
4. ✗ Ethanoic acid with ammonia solution

Question Number : 47 Question Id : 6364312567 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following statements is true

Options :

1. ✘ Relative error is the difference between the measured value and the true value
2. ✘ Accuracy can be readily determined by repeating the measurement on replicate samples
3. ✔ Precision is expressed as standard deviation / variance
4. ✘ Precision indicates the closeness of the measurement to the true or accepted value

Question Number : 48 Question Id : 6364312568 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which one of the following is not a primary standard

Options :

1. ✘ Anhydrous  $\text{Na}_2\text{CO}_3$
2. ✔  $\text{KMnO}_4$

3. ✘ AgNO<sub>3</sub>

4. ✘ Oxalic acid

**Question Number : 49 Question Id : 6364312569 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Choose the correct statement

Options :

1. ✘ Fluorescence detectors are less sensitive than UV detectors

2. ✘ RI detectors can be used for only UV absorbing compounds

3. ✔ RI detectors cannot be used in gradient elution method

4. ✘ Electrochemical detection does not require the use of conducting mobile phase

**Question Number : 50 Question Id : 6364312570 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

In complexometry, the masking agent used

Options :

1. ✓ Cyanide
2. ✗ Formaldehyde
3. ✗ Acetic acid
4. ✗ Sulphates

**Question Number : 51 Question Id : 6364312571 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Which of the following is indirect acting cholinergic agonist with short duration of action (10 to 20 min)

**Options :**

1. ✗ Neostigmine
2. ✗ Physostigmine
3. ✓ Edrophonium
4. ✗ Isoflurophate

**Question Number : 52 Question Id : 6364312572 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

The agent which causes mydriasis following topical application in eyes

Options :

1. ✓ Phenylephrine
2. ✗ Physostigmine
3. ✗ Atenolol
4. ✗ Timolol

**Question Number : 53 Question Id : 6364312573 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

The selective, reversible inhibitor of cysteinyl leukotrienes useful in the treatment of Asthma

Options :

1. ✓ Monteleukast
2. ✗ Cromolyn



3. ✘ Theophylline

4. ✘ Albuterol

**Question Number : 54 Question Id : 6364312574 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

The antibiotic potent against MRSA

Options :

1. ✘ Gentamycin

2. ✘ Cefazolin

3. ✘ Piperacillin

4. ✔ Vancomycin

**Question Number : 55 Question Id : 6364312575 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

The oral hypoglycemic drug which can be classified as 'insulin secretagogue' because it promotes insulin release from the  $\beta$  cells of the pancreas

Options :

1. ✘ Metformin
2. ✔ Glyburide
3. ✘ Pioglitazone
4. ✘ Acarbose

Question Number : 56 Question Id : 6364312576 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The drug which is effective in treating infertility due to anovulatory cycles

Options :

1. ✘ Tamoxifen
2. ✘ Raloxifene
3. ✔ Clomiphene

## Taremifene

4. ✘

**Question Number : 57 Question Id : 6364312577 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

In the bioassay of one of the following, Twin cross over design is used

Options :

1. ✘ Acetylcholine

2. ✔ Insulin

3. ✘ Noradrenaline

4. ✘ Phenylephrine

**Question Number : 58 Question Id : 6364312578 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

The diuretic used in pulmonary edema

Options :

1. ✘ Hydrochlorothiazide

2. ✘ Chlorthalidone

3. ✔ Furosemide

4. ✘ Spiranolactone

**Question Number : 59 Question Id : 6364312579 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Accumulation of  $\beta$ - Amyloid plaques around neurons in brain is related to

Options :

1. ✘ Epilepsy

2. ✔ Alzheimer's disease

3. ✘ Schizophrenia

4. ✘ Bipolar manic depression

**Question Number : 60 Question Id : 6364312580 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Choose the incorrect pair

Options :

1. ✘ Protamine Sulphate : Heparin over dosage
2. ✘ Vitamin K : Warfarin anticoagulation
3. ✘ Tranexamic acid : Inhibition of plasminogen
4. ✔ Dipyridamole : Anemia

Question Number : 61 Question Id : 6364312581 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Identify the pathophysiological changes in Parkinson's disease

Options :

1. ✔ Progressive degeneration of dopamine neurons in substantia nigra
2. ✘ No manifestation of motor symptoms like tremor, rigidity and postural instability
3. ✘ Dementia
4. ✘ Severely impaired thinking

Question Number : 62 Question Id : 6364312582 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Pathophysiological changes in stroke include

Options :

- 1. ✓ Rupture of arteries in brain, leakage of blood and clotting of blood in arteries resulting in coma, hemiplegia
- 2. ✗ No hemiplegia
- 3. ✗ Myocardial infarction
- 4. ✗ Heart attack

Question Number : 63 Question Id : 6364312583 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Thickening of arteries caused by buildup of a plaque in inner lining is seen in

Options :

- 1. ✓ Atherosclerosis
- 2. ✗ Diabetes
- 3. ✗ Myocardial infarction

4. ✘ Arrhythmia

Question Number : 64 Question Id : 6364312584 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Myocardial infarction involves

- i. The occlusion of blood vessel to myocardium
- ii. Necrosis of myocardial tissue
- iii. Hypertension
- iv. SA node failure

Options :

1. ✘ i & iii

2. ✘ i & iv

3. ✔ i & ii

4. ✘ iii & iv

Question Number : 65 Question Id : 6364312585 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Inflammatory bowel disease includes inflammations observed in – pick up correct pair

i. Ulcerative colitis

ii. Chron's disease

iii. Gastric ulcer

iv. Duodenal ulcer

Options :

1. ✘ i & iv

2. ✘ i & iii

3. ✔ i & ii

4. ✘ iii & iv

Question Number : 66 Question Id : 6364312586 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Morphological changes and causes associated with COPD

Options :

1. ✔ Smoke resulting in damage of airways

2. ✘ Airways narrowing due to pollen grains



3. ✘ Lung elasticity is normal

4. ✘ Bronchoconstriction and mucus production

**Question Number : 67 Question Id : 6364312587 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Identify the correct situation where TDM is useful and appropriate

Options :

1. ✔ Drugs with low safety margin e.g., Digoxin

2. ✘ In case of snake poisoning

3. ✘ If individual PK variations are not there for a drug

4. ✘ In case of drugs which get activated like L-DOPA

**Question Number : 68 Question Id : 6364312588 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Identify correct situation when TDM is of no use

Options :

1. ✔ Drugs with irreversible action e.g., Phenoxy benzoate

2. ✘ Drugs with a narrow therapeutic range exist
3. ✘ When significant pharmacokinetic variability exists among patients
4. ✘ In case of poisoning by drugs

**Question Number : 69 Question Id : 6364312589 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

In polypharmacy, drug – drug interactions are there. Identify one pair from the following where no interaction exist

**Options :**

1. ✘ Digoxin and Quinidine
2. ✘ Digoxin and Amiodarone
3. ✘ Aspirin and Warfarin
4. ✔ Paracetamol and Digoxin

**Question Number : 70 Question Id : 6364312590 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is**

**Question Mandatory : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

A case of drug food interaction – identify one pair from the following

**Options :**

1. ✓ Tetracycline – Milk
2. ✗ Ibuprofen – Milk
3. ✗ Paracetamol – Grape fruit juice
4. ✗ Aspirin – Milk

**Question Number : 71 Question Id : 6364312591 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is**

**Question Mandatory : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Liquid crystals exhibit

**Options :**

1. ✗ All properties of liquids
2. ✗ All properties of solids
3. ✓ Some properties of liquids and solids and birefringence
4. ✗ All properties of both liquids and solids

**Question Number : 72 Question Id : 6364312592 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Upper and lower consolute temperatures are exhibited by

Options :

1. ✘ Triethylamine – water system
2. ✔ Nicotine – water system
3. ✘ Phenol – water system
4. ✘ Nitrobenzene – hexane system

**Question Number : 73 Question Id : 6364312593 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Identify additive property from following

Options :

1. ✔ Mass of a molecule
2. ✘ Optical rotation

3. ✘ Solubility

4. ✘ Melting point

Question Number : 74 Question Id : 6364312594 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

True density is

Options :

1. ✔ The density of actual solid material exclusive of the voids and intra particle pores larger than the molecules
2. ✘ The density of solid material inclusive of the voids and intra particular pores.
3. ✘ The density of solid granular material with pores bigger than  $10\mu\text{m}$
4. ✘ The density of loose and bulky material

Question Number : 75 Question Id : 6364312595 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Plug flow is observed in

Options :

1. ✓ Cup and bob viscometer
2. ✗ Cone and plate viscometer
3. ✗ Both Cup and bob viscometer and Cone and plate viscometer
4. ✗ Falling-sphere viscometer

**Question Number : 76 Question Id : 6364312596 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

As per the HLB scale the w/o emulsifying agents fall in the range of

**Options :**

1. ✗ 8-16
2. ✓ 3-7
3. ✗ 1-3
4. ✗ 16-18

**Question Number : 77 Question Id : 6364312597 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

In aqueous dispersion the potential difference between shear plane and electroneutrality region around particle is known as

Options :

1. ✘ Electro thermodynamic potential
2. ✘ Nernst potential
3. ✔ Electrokinetic potential
4. ✘ Streaming potential

Question Number : 78 Question Id : 6364312598 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Cetrimide is \_\_\_\_\_ surfactant

Options :

1. ✘ Anionic
2. ✔ Cationic
3. ✘ Non ionic

4. ✘ Ampholytic

Question Number : 79 Question Id : 6364312599 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Gels take up certain amount of liquid without any measurable increase in volume  
– This phenomenon is known as

Options :

1. ✘ Syneresis

2. ✘ Swelling

3. ✔ Imbibition

4. ✘ Bleeding

Question Number : 80 Question Id : 6364312600 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

EDTA is

Options :

1. ✘ Monodentate



2. ✘ Bidentate
3. ✔ Hexadentate
4. ✘ Tridentate

**Question Number : 81 Question Id : 6364312601 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

In a reaction mixture, sodium hydroxide and water were in great excess and ethyl acetate was relatively in a low concentration. The concentrations of NaOH and water remained same at the end of reaction but, ethyl acetate concentration changed. The order of reaction is

**Options :**

1. ✘ First order
2. ✘ Second order
3. ✘ Zero order
4. ✔ Pseudo first order

**Question Number : 82 Question Id : 6364312602 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is**

**Question Mandatory : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Identify pair of terminal sterilization methods

**Options :**

1. ✓ Autoclaving and radiation
2. ✗ Autoclaving and filtration
3. ✗ Filtration and gaseous method
4. ✗ Radiation and filtration

**Question Number : 83 Question Id : 6364312603 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is**

**Question Mandatory : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

HEPA filters remove all the particles from air with 99.97% efficiency of

**Options :**

1. ✓  $\geq 0.3 \mu\text{m}$  size
2. ✗  $\leq 0.1 \mu\text{m}$  size
3. ✗  $\leq 0.2 \mu\text{m}$  size

4. ✘  $\leq 0.22 \mu\text{m}$  size

Question Number : 84 Question Id : 6364312604 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Identify the neutralizing substance used during the sterility testing of penicillin

Options :

1. ✔ Penicillinase

2. ✘  $\alpha$ - amylase

3. ✘ Mercuric chloride

4. ✘ EDTA

Question Number : 85 Question Id : 6364312605 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In sterility testing, the operators technique is found by conducting

Options :

1. ✘ Positive control

2. ✘ Negative control
3. ✘ Air sampling
4. ✔ Dummy runs

**Question Number : 86 Question Id : 6364312606 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Lactobacillus leichmannii is used for assay of

**Options :**

1. ✔ Vitamin B12
2. ✘ Penicillin
3. ✘ Riboflavin
4. ✘ Valine

**Question Number : 87 Question Id : 6364312607 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Rabies vaccine is currently manufactured by using

Options :

1. ✓ Cell culture
2. ✗ Eggs
3. ✗ Mice
4. ✗ Rabbits

Question Number : 88 Question Id : 6364312608 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Tetanus toxoid is acting as

Options :

1. ✓ Antigen
2. ✗ Antibody
3. ✗ Toxin
4. ✗ Toxin without Ag property

**Question Number : 89 Question Id : 6364312609 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Identify the vaccine which is used generally after exposure to disease

Options :

1. ✘ Polio vaccine
2. ✔ Rabies vaccine
3. ✘ Cholera vaccine
4. ✘ Typhoid vaccine

**Question Number : 90 Question Id : 6364312610 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Antitoxins are preparations containing

Options :

1. ✘ Antibodies against snake venom
2. ✔ Antibodies against toxin

3. ✘ Antibodies against no antigen

4. ✘ Antibodies against tetanus

Question Number : 91 Question Id : 6364312611 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Chlortetracycline is produced by using

Options :

1. ✘ Streptomyces rimosus

2. ✔ Streptomyces aureofaciens

3. ✘ Streptomyces venezuelae

4. ✘ Streptomyces griseus

Question Number : 92 Question Id : 6364312612 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In preformulation studies on API, polymorphic forms cannot be detected by

Options :

1. ✘ Hot stage microscopy
2. ✘ Differential scanning calorimetry
3. ✘ Powder X-ray diffractometry
4. ✔ UV spectrometry

**Question Number : 93 Question Id : 6364312613 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Ostwald ripening in suspension is noticed when

Options :

1. ✘ A polymer is included
2. ✘ Uniform sized particles are suspended
3. ✘ No temperature fluctuations in storage
4. ✔ Different sized particles and temperature changes are present

**Question Number : 94 Question Id : 6364312614 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is**



**Question Mandatory : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Identify the component of absorption base

**Options :**

1. ✘ Soft paraffin
2. ✔ Lanolin Anhydrous
3. ✘ PEG mixture
4. ✘ Cetyl alcohol

**Question Number : 95 Question Id : 6364312615 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is**

**Question Mandatory : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

All types of parenteral injectables are stored in glass containers made up of

**Options :**

1. ✘ Type II
2. ✔ Type I
3. ✘ Type III
4. ✘ NP

**Question Number : 96 Question Id : 6364312616 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Presence of pyrogens as per USP can be detected by

**Options :**

1. ✓ Limulus Amebocyte lysate test
2. ✗ Media fill test
3. ✗ Fever response in rats
4. ✗ Decreased temperature in rabbits

**Question Number : 97 Question Id : 6364312617 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Select direct compression vehicle for tablet making from the following

**Options :**

1. ✗ Methyl cellulose
2. ✗ Sodium carboxy methyl cellulose
3. ✓ Microcrystalline cellulose

4. ✘ Hydroxy propyl cellulose

**Question Number : 98 Question Id : 6364312618 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Displacement value is to be calculated in

**Options :**

1. ✔ Suppositories
2. ✘ Tablets
3. ✘ Suspensions
4. ✘ Emulsions

**Question Number : 99 Question Id : 6364312619 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Identify the blood product that is used as haemostatic

**Options :**

1. ✘ Human Albumin
2. ✘ Human Immunoglobulin

3. ✓ Human Fibrin foam

4. ✗ Heparin

**Question Number : 100 Question Id : 6364312620 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Absorbable suturing material is

**Options :**

1. ✓ Catgut

2. ✗ Nylon

3. ✗ Rayon

4. ✗ Linen

**Question Number : 101 Question Id : 6364312621 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In lipsticks composition, which component is maximum

**Options :**

1. ✓ Emollients

2. ✘ Structuring agents

3. ✘ Pigments

4. ✘ Matting and all other components

**Question Number : 102 Question Id : 6364312622 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

In a study: a drug in two or more similar dosage forms reaches the general circulation at the same relative rate and the same relative extent. The study is known as

**Options :**

1. ✘ Pharmaceutical equivalence

2. ✘ Therapeutic equivalence

3. ✔ Bioequivalence

4. ✘ Clinical equivalence

**Question Number : 103 Question Id : 6364312623 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is**

Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Identify incorrect statement

Options :

1. ✘ Bioequivalent products are expected to be therapeutically equivalent
2. ✘ Elimination is the sum of processes related to drug loss from body, namely metabolism and excretion
3. ✘ Disposition involves distribution and elimination
4. ✔ Highly protein bound drugs have large volume of distribution

Question Number : 104 Question Id : 6364312624 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Elimination rate constant  $K_{el}$  can be calculated from PK parameters like i.e., total body clearance ( $CL_t$ ) and apparent volume of distribution ( $V_d$ ) by the following relationship

Options :

1. ✘  $K_{el} = V_d/CL_t$
2. ✔  $K_{el} = CL_t/V_d$

3. ✘  $K_{el} = CLt/X$  'X' amount of drug

4. ✘  $K_{el} = CLt/C$  'C' Concentration of drug in plasma present in body at time 't'

**Question Number : 105 Question Id : 6364312625 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Low bioavailability (oral) of a drug is due to

Options :

1. ✔ Efflux transporters in intestine, first pass metabolism and poor solubility

2. ✘ Long half life

3. ✘ No ionization

4. ✘ High solubility and high permeability

**Question Number : 106 Question Id : 6364312626 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Identify QA departmental responsibility

Options :

1. ✓ Ensuring the quality policies adopted by company are followed
2. ✗ Sampling and analytical testing of incoming raw materials
3. ✗ Inspection of packaging components and labeling
4. ✗ Conducting tests on finished dosage form

Question Number : 107 Question Id : 6364312627 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Drug Manufacturing License for Manufacturing of rDNA products is given by

Options :

1. ✗ Minister of Industries, Central Government
2. ✗ Minister of Industries, State Government
3. ✓ Central Drug Licensing Authority
4. ✗ State Drug Licensing Authority

Question Number : 108 Question Id : 6364312628 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is



**Question Mandatory : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Identify the study, unrelated to preformulation stage

**Options :**

1. ✘ Establishing necessary physicochemical parameter of a new drug
2. ✔ To perform initial toxicity study
3. ✘ To establish compatibility of drug with excipients
4. ✘ Particle size and size distribution studies of drug

**Question Number : 109 Question Id : 6364312629 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is**

**Question Mandatory : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Identify the cGMP related pair of guidances from following

- i. Minimum requirements to be met by industry when manufacturing, packaging and holding human and veterinary drugs
- ii. Controlling and conducting human clinical studies
- iii. Manufacturing, packaging, storage and installation guidance for medical devices
- iv. Manufacture and control of large volume parenterals, control of sterile products produced by aseptic processing

Options :

- 1. ✘ i & ii
- 2. ✘ ii & iii
- 3. ✔ iii & iv
- 4. ✘ iv & i

Question Number : 110 Question Id : 6364312630 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Tablets are manufactured, tested in animals and human beings. The valid guidances include

Options :

1. ✓ GMP, GLP and GCP
2. ✗ GMP, GLP and no GCP
3. ✗ GLP, GCP and no GMP
4. ✗ GMP, GCP and no GLP

Question Number : 111 Question Id : 6364312631 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Select an exclusive monovalent vaccine from following

Options :

1. ✗ Oral polio vaccine
2. ✗ Cholera vaccine
3. ✓ Measles vaccine

4. ✘ Influenza vaccine

Question Number : 112 Question Id : 6364312632 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Among different immunoglobulins, select the secretory antibody

Options :

1. ✘ Ig G

2. ✘ Ig M

3. ✔ Ig A

4. ✘ Ig D

Question Number : 113 Question Id : 6364312633 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Educational regulations to become a registered pharmacist are included in

Options :

1. ✔ Pharmacy act 1948

2. ✘ Drugs and cosmetics act, 1940

3. ✘ Pharmacy council act, 1956

4. ✘ Drugs and Magic remedies act, 1954

**Question Number : 114 Question Id : 6364312634 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

'Illicit traffic' means in relation to narcotic drugs and psychotropic substance Act, 1985

**Options :**

1. ✘ Cultivation of opium poppy with permission

2. ✘ Sale and purchase of narcotic drugs with permission

3. ✘ Import and export (to India) of psychotropic substance with permission

4. ✔ Manufacture and storage of narcotic drugs without permission

**Question Number : 115 Question Id : 6364312635 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical**

Correct Marks : 1 Wrong Marks : 0

'Opium derivative' means as per narcotic and psychotropic substances act

Options :

1. ✘ Morphine, codeine and no thebaine
2. ✘ Codeine, thebaine and no morphine
3. ✘ Morphine, thebaine and no codeine
4. ✔ Morphine, Codeine and thebaine

Question Number : 116 Question Id : 6364312636 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

As per Drugs and Cosmetics act, 1940 if a drug consists in whole or in part of any filthy, putrid or decomposed substance is called

Options :

1. ✘ Misbranded drug
2. ✔ Adulterated drug
3. ✘ Spurious drug

4. ✘ Spurious and misbranded drug

**Question Number : 117 Question Id : 6364312637 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

Drug Price Control Order is issued by

**Options :**

1. ✘ Ministry of Health & Family welfare, Central Government.

2. ✔ Ministry of Chemicals & Fertilizers, Central government

3. ✘ Central Drug Licensing Authority

4. ✘ State Drug Licensing Authority

**Question Number : 118 Question Id : 6364312638 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0**

As per drugs and cosmetic rules 1945, the drugs inspector has to inspect the establishments licensed for sale of drugs

Options :

1. ✓ Not less than once a year
2. ✗ Not less than once a month
3. ✗ Thrice a year
4. ✗ Twice a year

Question Number : 119 Question Id : 6364312639 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In India, permission is given for phase I, phase II and Phase III clinical trials of new drug as per

Options :

1. ✓ Schedule Y of Drugs & Cosmetics Act 1940
2. ✗ Schedule X of Drugs & Cosmetics Act 1940
3. ✗ Pharmacy act, 1948
4. ✗ Schedule M of Drugs & Cosmetics Act 1940



Question Number : 120 Question Id : 6364312640 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

License for whole human blood collection, storage, processing and distribution is given to a blood bank in accordance with

Options :

1. ✘ Drugs and cosmetics act 1940
2. ✔ Drugs and cosmetic rules 1945 and amendments
3. ✘ Pharmacy act, 1948
4. ✘ Blood banks are licensed by Reserve bank of India