

Telangana State Council Higher Education

Notations :

- Options shown in **green** color and with  icon are correct.
- Options shown in **red** color and with  icon are incorrect.

Question Paper Name :	Pharmacy 1st Jun 2026 Shift 1
Subject Name :	Pharmacy
Creation Date :	2026-06-01 12:49:16
Duration :	120
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Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes
Change Font Color :	No
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Pharmacy

Group Number :	1
Group Id :	10513151
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	120

Pharmacy

Section Id :	105131111
Section Number :	1
Section type :	Online

Mandatory or Optional :	Mandatory
Number of Questions :	120
Number of Questions to be attempted :	120
Section Marks :	120
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	105131111
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 1051316481 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which crude drug is used as expectorant?

Options :

1. ✓ Liquorice
2. ✗ Digitalis
3. ✗ Belladonna
4. ✗ Senna

Question Number : 2 Question Id : 1051316482 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which enzyme is required to produce protoplast?

Options :

1. ✓ Cellulase and Pectinase
2. ✗ Pectinase and Zymase
3. ✗ Protease
4. ✗ Pepsin

Question Number : 3 Question Id : 1051316483 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Ergot alkaloids (e.g., Ergotamine) are biosynthetically derived from which precursor amino acid?

Options :

1. ✖ Tyrosine
2. ✖ Phenylalanine
3. ✔ Tryptophan
4. ✖ Ornithine

Question Number : 4 Question Id : 1051316484 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The content of hydroxy methyl furfural is used to detect the adulteration in

Options :

1. ✔ Honey
2. ✖ Gelatin
3. ✖ Acacia
4. ✖ Wool fat

Question Number : 5 Question Id : 1051316485 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Acetic anhydride and sulphuric acid are reagents used in

Options :

1. ✖ Shinoda's test
2. ✖ Borntager's test

3. ✓ Liebermann Burchard test

4. ✗ Murexide test

Question Number : 6 Question Id : 1051316486 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

1 mg of powdered lycopodium consists of

Options :

1. ✗ 74000 spores

2. ✗ 84500 spores

3. ✓ 94000 spores

4. ✗ 9400 spores

Question Number : 7 Question Id : 1051316487 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Mention the need of cardiac glycoside-containing drugs like Digitalis be dried immediately after collection at a controlled temperature (around 60°C)?

Options :

1. ✗ To activate the glycosides

2. ✓ To prevent enzymatic hydrolysis that would destroy the active constituents

3. ✗ To remove toxic volatile oils

4. ✗ To improve their colour and appearance

Question Number : 8 Question Id : 1051316488 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which pharmacopoeial parameter directly detects foreign inorganic materials in crude drugs?

Options :

1. ✖ Assay for active principle
2. ✖ Loss on drying
3. ✔ Total ash and acid-insoluble ash
4. ✖ Thin layer chromatographic profile

Question Number : 9 Question Id : 1051316489 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The major active principle of Clove responsible for analgesic action is

Options :

1. ✖ Menthol
2. ✔ Eugenol
3. ✖ Gingerol
4. ✖ Thymol

Question Number : 10 Question Id : 1051316490 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Tannins chemically belongs to which class?

Options :

1. ✖ Alkaloids
2. ✔ Phenolic compounds
3. ✖ Steroids
4. ✖ Glycosides

Question Number : 11 Question Id : 1051316491 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The end product of Glycolysis metabolism in presence of Oxygen is

Options :

1. ✖ Lactic Acid
2. ✖ Acetic Acid
3. ✔ Pyruvic Acid
4. ✖ Fatty Acid

Question Number : 12 Question Id : 1051316492 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Nucleoside contains following

Options :

1. ✖ Nitrogen Base + Sugar Moiety + Phosphate Group
2. ✔ Nitrogen Base + Sugar Moiety only
3. ✖ Nitrogen Base + Phosphate Group only
4. ✖ Non-Nitrogen Base + Sugar Moiety + Phosphate Group

Question Number : 13 Question Id : 1051316493 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Ketone bodies are synthesized in

Options :

1. ✔ Liver

2. ✖ Adipose Tissue
3. ✖ Brain
4. ✖ Muscle

Question Number : 14 Question Id : 1051316494 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which coenzyme is required for Transamination?

Options :

1. ✖ Co-enzyme Q
2. ✖ NAD
3. ✖ FAD
4. ✔ Pyridoxal Phosphate (PLP)

Question Number : 15 Question Id : 1051316495 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Beriberi occurs due to deficiency of

Options :

1. ✔ Vitamin B1
2. ✖ Vitamin B2
3. ✖ Vitamin B3
4. ✖ Vitamin B6

Question Number : 16 Question Id : 1051316496 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of these intermediates is formed during the Reimer-Tiemann reaction of phenol with chloroform and NaOH?

Options :

1. ✖ Nitrene
2. ✖ Free radical
3. ✖ Carbonium ion
4. ✔ Dichlorocarbene

Question Number : 17 Question Id : 1051316497 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the effect of stereochemistry on Drug-Receptor interactions?

Options :

1. ✖ Both enantiomers fit equally well into a receptor site
2. ✔ Only one isomer may fit in the chiral binding site of the receptor
3. ✖ Geometric isomers always have the same activity
4. ✖ Chirality does not influence receptor binding

Question Number : 18 Question Id : 1051316498 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a non-benzodiazepine used as Hypnotic?

Options :

1. ✖ Diazepam
2. ✔ Zolpidem
3. ✖ Lorazepam

4. ✖ Alprazolam

Question Number : 19 Question Id : 1051316499 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a representative structure of the butyrophenone class?

Options :

1. ✖ Chlorpromazine
2. ✖ Thioridazine
3. ✖ Timolol
4. ✔ Haloperidol

Question Number : 20 Question Id : 1051316500 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Phenelzine is classified under which class of antidepressants

Options :

1. ✖ Selective Serotonin Reuptake Inhibitors
2. ✖ Benzodiazepines
3. ✖ Tricyclic Antidepressants
4. ✔ Monoamine Oxidase Inhibitors

Question Number : 21 Question Id : 1051316501 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The IUPAC name of Buspirone is

Options :

1. ✔ 8-[4-(4-pyrimidin-2-yl piperazin-1-yl)butyl]-8-azaspiro[4.5]decane-7,9-dione

2. ✖ 8-[4-(4-pyrimidin-2-yl piperazin-1-yl)propyl]-8-azaspiro [4.5] decane-7,9-dione
3. ✖ 8-[4-(4-pyridin-2-yl piperazin-1-yl)butyl]-8-azaspiro [4.5] decane-7,9-dione
4. ✖ 8-[4-(4-pyrimidin-2-yl piperazin-1-yl)butyl]-8-azaspiro [4.5] decane-6,8-dione

Question Number : 22 Question Id : 1051316502 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following statements about phenytoin is true?

Options :

1. ✖ The phenyl rings must be in the same plane
2. ✖ The hydantoin ring is not necessary
3. ✔ Aromatic substitution at position 5 is necessary
4. ✖ The structure contains a barbituric acid ring

Question Number : 23 Question Id : 1051316503 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is an example of an amide-type local anesthetic?

Options :

1. ✖ Procaine
2. ✔ Lidocaine
3. ✖ Benzocaine
4. ✖ Tetracaine

Question Number : 24 Question Id : 1051316504 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which derivatives of the following produce good antianginal drugs?

Options :

1. ✖ 1,2 Dihydro Pyridine
2. ✖ 1,3 Dihydro Pyridine
3. ✔ 1,4 Dihydro Pyridine
4. ✖ Pyridine

Question Number : 25 Question Id : 1051316505 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

IUPAC name of Amyl Nitrite

Options :

1. ✔ 3-Methyl butyl nitrite
2. ✖ 2-Methyl butyl nitrite
3. ✖ 3-Ethyl butyl nitrite
4. ✖ 2-Ethyl butyl nitrite

Question Number : 26 Question Id : 1051316506 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Penicillins are derivatives of which acid?

Options :

1. ✖ 6-Nitro penicillanic acid
2. ✖ 7-aminocephalosporanic acid
3. ✔ 6-Amino penicillanic acid

4. ✖ 7-amino penicillanic acid

Question Number : 27 Question Id : 1051316507 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Structural components of Streptomycin antibiotic

Options :

1. ✖ Streptidine and streptose only
2. ✖ Streptidine and N-methyl-L-glucosamine only
3. ✖ Streptose and N-methyl-L-glucosamine only
4. ✔ Streptidine, streptose and N-methyl-L-glucosamine

Question Number : 28 Question Id : 1051316508 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Oxicam derivatives differ from other NSAIDS because they contain

Options :

1. ✖ Carboxylic acid group
2. ✔ Enolic acid group
3. ✖ Ester group
4. ✖ Amide group

Question Number : 29 Question Id : 1051316509 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which structural feature is essential for opioid analgesic activity?

Options :

1. ✖ Carboxylic acid group
2. ✔ Phenolic hydroxyl group
3. ✖ Ester Linkage
4. ✖ Sulfonemide group

Question Number : 30 Question Id : 1051316510 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Ketoconazole is chemically classified as a

Options :

1. ✖ Triazole
2. ✔ Imidazole
3. ✖ Polyene
4. ✖ Tetrazole

Question Number : 31 Question Id : 1051316511 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Identify the Iminostilbene analog?

Options :

1. ✖ Phenytoin
2. ✖ Ethotoin
3. ✖ Lamotrigine
4. ✔ Carbamazepine

Question Number : 32 Question Id : 1051316512 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Indomethacin belongs to which chemical class of NSAIDS?

Options :

1. ✖ Aryl and Heteroaryl acetic acid
2. ✖ Aryl and Heteroaryl propionic acid
3. ✔ Indole-3 acetic acid
4. ✖ N-aryl anthranilic acid

Question Number : 33 Question Id : 1051316513 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which drug is cholinesterase reactivator?

Options :

1. ✖ Donepezil
2. ✖ Ambenonium chloride
3. ✖ Physostigmine
4. ✔ Pralidoxime chloride

Question Number : 34 Question Id : 1051316514 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The structural modification required to convert an opioid agonist into an antagonist is commonly

Options :

1. ✖ Addition of a methyl group at C3
2. ✔ Replacement of N-methyl with N-allyl

3. ✖ Reduction of the 7,8-double bond
4. ✖ Addition of a phenolic hydroxyl group

Question Number : 35 Question Id : 1051316515 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Zidovudine acts by which of the following mechanism?

Options :

1. ✖ Protease inhibition
2. ✖ DNA polymerase inhibition
3. ✔ Nucleoside reverse transcriptase inhibition
4. ✖ Fusion inhibition

Question Number : 36 Question Id : 1051316516 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is Cotrimoxazole?

Options :

1. ✔ Sulphamethoxazole + Trimethoprim
2. ✖ Sulfadoxine + Trimethoprim
3. ✖ Sulfadiazine + Trimethoprim
4. ✖ Sulfasalazine + Trimethoprim

Question Number : 37 Question Id : 1051316517 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a structural feature of polyene antifungal agents?

Options :

1. ✖ A triazole ring
2. ✔ A large lactone ring with multiple conjugated double bonds
3. ✖ A pyrimidine base
4. ✖ An allylamine side chain

Question Number : 38 Question Id : 1051316518 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

How aspirin acts as an antiplatelet?

Options :

1. ✖ Formation of Acetic acid
2. ✖ Breaking down to Salicylic acid
3. ✔ Acetylates of COX-1 enzyme
4. ✖ Production of Gentisic acid

Question Number : 39 Question Id : 1051316519 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following anticoagulants acts by inhibiting the γ -carboxylation of glutamate residues in clotting factors?

Options :

1. ✖ Heparin
2. ✖ Rivaroxaban
3. ✖ Dabigatran
4. ✔ Warfarin

Question Number : 40 Question Id : 1051316520 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following drugs acts by inhibiting the enzyme HMG-CoA reductase?

Options :

1. ✖ Cholestyramine
2. ✔ Simvastatin
3. ✖ Fenofibrate
4. ✖ Nicotinic acid

Question Number : 41 Question Id : 1051316521 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Milk of Magnesia is chemically known as

Options :

1. ✖ Magnesium Carbonate
2. ✔ Magnesium Hydroxide
3. ✖ Magnesium Trisilicate
4. ✖ Magnesium Sulphate

Question Number : 42 Question Id : 1051316522 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a non-systemic antacid?

Options :

1. ✖ Sodium Bicarbonate

2. ✖ Potassium citrate
3. ✔ Magnesium hydroxide
4. ✖ Sodium citrate

Question Number : 43 Question Id : 1051316523 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which vitamin enhances the absorption of iron?

Options :

1. ✖ Vitamin A
2. ✖ Vitamin D
3. ✔ Vitamin C
4. ✖ Vitamin K

Question Number : 44 Question Id : 1051316524 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which inorganic compound is commonly used as an anticaries agent?

Options :

1. ✖ Calcium Carbonate
2. ✔ Sodium Fluoride
3. ✖ Zinc Chloride
4. ✖ Sodium Chloride

Question Number : 45 Question Id : 1051316525 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The principle of the limit test for Arsenic is based on the Gutzeit test, where a yellow stain is produced on

Options :

1. ✖ Lead acetate paper
2. ✔ Mercuric chloride paper
3. ✖ Filter paper
4. ✖ Silver nitrate paper

Question Number : 46 Question Id : 1051316526 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In the Arrhenius equation for chemical kinetics, $k = A e^{\frac{-E_a}{RT}}$, the parameter ' E_a ' represents

Options :

1. ✖ Frequency factor
2. ✔ Activation energy of the reaction
3. ✖ Universal gas constant
4. ✖ Order of the degradation reaction

Question Number : 47 Question Id : 1051316527 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Newtonian flow is characterized by

Options :

1. ✖ Viscosity increases with shear rate
2. ✖ Viscosity decreases with shear rate
3. ✔ Constant viscosity irrespective of shear rate

4. ✖ Presence of yield value

Question Number : 48 Question Id : 1051316528 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is an example of an inclusion complex?

Options :

1. ✔ Cyclodextrin–drug complex

2. ✖ Iodine–potassium iodide

3. ✖ EDTA–calcium

4. ✖ Caffeine–benzoic acid

Question Number : 49 Question Id : 1051316529 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

As per ICH stability guidelines, Climatic Zone II (Subtropical/Mediterranean) is

Options :

1. ✖ 21°C / 45% RH

2. ✖ 30°C / 35% RH

3. ✖ 30°C / 65% RH

4. ✔ 25°C / 60% RH

Question Number : 50 Question Id : 1051316530 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the main, rapid mechanism behind the sterilizing effect of an autoclave?

Options :

1. ✖ Oxidation of cell components
2. ✖ Disruption of the cell membrane
3. ✔ Coagulation and denaturation of proteins
4. ✖ Denaturation of nucleic acids

Question Number : 51 Question Id : 1051316531 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Turbidimetric assay measures

Options :

1. ✖ Zone of inhibition
2. ✖ Cell count
3. ✖ Enzyme activity
4. ✔ Optical density of microbial growth

Question Number : 52 Question Id : 1051316532 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is used to neutralize halogenated compounds (chlorine/iodine) in disinfection?

Options :

1. ✔ Sodium thiosulfate
2. ✖ Tween 20
3. ✖ Polysorbate 80
4. ✖ Lecithin

Question Number : 53 Question Id : 1051316533 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The highly alkaline chemical agent which is most commonly used in the formulation of cosmetic depilatories to chemically break the strong disulfide ($-S-S-$) bonds of hair keratin is

Options :

1. ✖ Hydrogen peroxide
2. ✖ Sodium lauryl sulfate
3. ✔ Calcium thioglycolate
4. ✖ Aluminum chlorohydrate

Question Number : 54 Question Id : 1051316534 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which cells are primarily involved in cell-mediated adaptive immunity?

Options :

1. ✖ B-cells
2. ✖ Thrombocytes
3. ✖ Mast cells
4. ✔ T-cells

Question Number : 55 Question Id : 1051316535 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

BCG vaccine is a

Options :

1. ✔ Live attenuated vaccine

2. ✖ Killed vaccine
3. ✖ Toxoid
4. ✖ Recombinant vaccine

Question Number : 56 Question Id : 1051316536 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

How does Tetanus Antitoxin work?

Options :

1. ✖ It kills the bacteria Clostridium tetani
2. ✔ It neutralizes unbound toxin in the blood
3. ✖ It prevents the bacteria from multiplying
4. ✖ It stimulates the body to produce its own antibodies

Question Number : 57 Question Id : 1051316537 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

HAT medium contains

Options :

1. ✖ Heparin, ATP, Threonine
2. ✖ Histidine, Alanine, Thymine
3. ✔ Hypoxanthine, Aminopterin, Thymidine
4. ✖ Hydrogen peroxide, Amines, Thymine

Question Number : 58 Question Id : 1051316538 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which technique is commonly used to study polymorphism?

Options :

1. ✖ Flame photometry
2. ✖ IR spectroscopy
3. ✔ X-ray diffraction
4. ✖ UV spectroscopy

Question Number : 59 Question Id : 1051316539 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Separation of one or more layers of a tablet is called as

Options :

1. ✖ Sticking
2. ✔ Lamination
3. ✖ Capping
4. ✖ Mottling

Question Number : 60 Question Id : 1051316540 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following gases is commonly used as a compressed gas propellant?

Options :

1. ✔ Nitrogen
2. ✖ Chlorofluorocarbons
3. ✖ Dimethyl ether

4. ✖ Propane

Question Number : 61 Question Id : 1051316541 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The blood product used for expanding plasma volume is

Options :

1. ✖ Platelets
2. ✖ Packed red cells
3. ✖ Cryoprecipitate
4. ✔ Albumin

Question Number : 62 Question Id : 1051316542 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following inorganic compounds is specifically used as an 'Adsorbent' in the treatment of diarrhea?

Options :

1. ✖ Ferrous Sulphate
2. ✖ Calcium Carbonate
3. ✔ Light Kaolin
4. ✖ Magnesium Hydroxide

Question Number : 63 Question Id : 1051316543 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The Andreasen Pipette used to determine particle size is based on the principle of

Options :

1. ✓ Rate of settling in a fluid
2. ✗ Change in electrical resistance
3. ✗ Direct measurement of particles
4. ✗ Resistance to airflow

Question Number : 64 Question Id : 1051316544 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The HLB value required for O/W emulsions generally lies in between

Options :

1. ✗ 1–3
2. ✓ 8–18
3. ✗ 7–9
4. ✗ 3–6

Question Number : 65 Question Id : 1051316545 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The standard moisture content range for hard gelatin capsule shells is

Options :

1. ✗ 20–25%
2. ✗ 1–2%
3. ✗ 5–8%
4. ✓ 13–16%

Question Number : 66 Question Id : 1051316546 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

According to pH-partition hypothesis, weak acids are best absorbed in

Options :

1. ✖ Intestine
2. ✖ Rectum
3. ✔ Stomach
4. ✖ Colon

Question Number : 67 Question Id : 1051316547 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which law is used to study the rate of drug diffusion across a membrane?

Options :

1. ✔ Fick's Law
2. ✖ Noyes-Whitney equation
3. ✖ Michaelis-Menten equation
4. ✖ Henderson-Hasselbalch equation

Question Number : 68 Question Id : 1051316548 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

A drug showing linear pharmacokinetics in a one-compartment model follows

Options :

1. ✖ Zero-order elimination
2. ✔ First-order elimination

3. ✖ Capacity-limited elimination
4. ✖ Mixed-order elimination

Question Number : 69 Question Id : 1051316549 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The FDA criteria for bioequivalence requires that

Options :

1. ✖ 50–150% confidence interval for $C_{\max}$
2. ✖ 90–110% confidence interval for AUC only
3. ✔ 80–125% confidence interval for AUC and $C_{\max}$
4. ✖ 70–130% confidence interval for half-life

Question Number : 70 Question Id : 1051316550 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following causes of non-linearity is associated with phenytoin?

Options :

1. ✖ Enzyme induction
2. ✔ Saturation of metabolic enzymes
3. ✖ Saturation of plasma protein binding
4. ✖ Saturation of renal excretion

Question Number : 71 Question Id : 1051316551 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

A drug with a low clearance and large volume of distribution will have

Options :

1. ✓ Long half-life
2. ✗ Low bioavailability
3. ✗ Rapid elimination
4. ✗ Short half-life

Question Number : 72 Question Id : 1051316552 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The most important conjugating agent in Phase II metabolism is

Options :

1. ✗ Glycine
2. ✗ Acetic acid
3. ✗ Sulfuric acid
4. ✓ Glucuronic acid

Question Number : 73 Question Id : 1051316553 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In one-compartment model, after IV bolus administration, the plasma concentration declines

Options :

1. ✗ Sigmoidally with time
2. ✓ Exponentially with time
3. ✗ Logarithmically with time
4. ✗ Linearly with time

Question Number : 74 Question Id : 1051316554 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which one of the following is true about a competitive antagonism?

Options :

1. ✖ Antagonism cannot be completely reversed by increased dose of the agonist
2. ✖ An agonist cannot displace an antagonist from the receptor
3. ✔ Agonists and antagonists bind to the same receptor
4. ✖ Dose-response curve of an agonists shifts to the left in the presence of an antagonist

Question Number : 75 Question Id : 1051316555 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Dantrolene is used to treat malignant hyperthermia caused by succinylcholine because dantrolene

Options :

1. ✔ Blocks calcium release from sarcoplasmic reticulum
2. ✖ Induces contraction of skeletal muscle
3. ✖ Increases the rate of succinylcholine metabolism
4. ✖ Inhibits succinylcholine binding to nicotinic receptors

Question Number : 76 Question Id : 1051316556 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following synthetic antimuscarinic drugs is correctly matched with its primary clinical use?

Options :

1. ✖ Pirenzepine – Antiparkinsonian agent
2. ✔ Cyclopentolate – Mydriatic
3. ✖ Glycopyrrolate – Antispasmodic
4. ✖ Oxybutynin – Anti-ulcer agent

Question Number : 77 Question Id : 1051316557 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Safinamide is a/an

Options :

1. ✔ Antiparkinsonian drug
2. ✖ Antipsychotic drug
3. ✖ Antidepressant drug
4. ✖ Antiepileptic drug

Question Number : 78 Question Id : 1051316558 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following classes does escitalopram belong to?

Options :

1. ✖ Tricyclic antidepressants
2. ✔ Selective serotonin reuptake inhibitors
3. ✖ Norepinephrine reuptake inhibitors
4. ✖ Serotonin–norepinephrine reuptake inhibitors

Question Number : 79 Question Id : 1051316559 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Heparin exerts its anticoagulant effect by enhancing the activity of which of the following endogenous inhibitors of coagulation?

Options :

1. ✓ Antithrombin III
2. ✗ Protein C
3. ✗ Protein S
4. ✗ Calcium

Question Number : 80 Question Id : 1051316560 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following drugs produces vascular smooth muscle relaxation primarily by opening potassium channels, leading to membrane hyperpolarization?

Options :

1. ✗ Fenoldopam
2. ✗ Nitroprusside
3. ✓ Minoxidil
4. ✗ Verapamil

Question Number : 81 Question Id : 1051316561 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a non-purine xanthine oxidase inhibitor used to treat hyperuricemia?

Options :

1. ✗ Allopurinol

2. ✖ Probenecid
3. ✔ Febuxostat
4. ✖ Pegloticase

Question Number : 82 Question Id : 1051316562 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Lasmiditan is an agonist at which serotonin receptor subtype?

Options :

1. ✖ 5-HT_{1A}
2. ✖ 5-HT_{1D/1B}
3. ✔ 5-HT_{1F}
4. ✖ 5-HT_{2A/2c}

Question Number : 83 Question Id : 1051316563 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

All of the following antidiabetic drugs act by enhancing insulin secretion except

Options :

1. ✖ Exenatide
2. ✖ Alogliptin
3. ✖ Glibenclamide
4. ✔ Rosiglitazone

Question Number : 84 Question Id : 1051316564 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a pure estrogen antagonist that can be used in the treatment of breast cancer?

Options :

1. ✓ Fulvestrant
2. ✗ Raloxifene
3. ✗ Letrozole
4. ✗ Tamoxifen

Question Number : 85 Question Id : 1051316565 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following drugs acts as a neurokinin-1 (NK1) receptor antagonist to prevent chemotherapy-induced vomiting?

Options :

1. ✗ Ondansetron
2. ✓ Aprepitant
3. ✗ Dronabinol
4. ✗ Metoclopramide

Question Number : 86 Question Id : 1051316566 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Vancomycin is

Options :

1. ✓ Glycopeptide antibiotic
2. ✗ Oxazolidinone antibiotic

3. ✖ Lincosamide antibiotic
4. ✖ Aminoglycoside antibiotic

Question Number : 87 Question Id : 1051316567 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which class of antimalarial drugs is responsible for radical cure by killing exo-erythrocytic forms?

Options :

1. ✔ 8-Aminoquinolines
2. ✖ Artemisinin compounds
3. ✖ Biguanides
4. ✖ Phenanthrene methanols

Question Number : 88 Question Id : 1051316568 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Pulmonary fibrosis with skin pigmentation is a characteristic adverse effect of

Options :

1. ✖ Doxorubicin
2. ✖ Cyclophosphamide
3. ✔ Bleomycin
4. ✖ Cisplatin

Question Number : 89 Question Id : 1051316569 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which phase of clinical trials is typically double-blind, randomized and conducted in a heterogeneous patient population across multiple centers?

Options :

1. ✖ Phase II
2. ✔ Phase III
3. ✖ Phase IV
4. ✖ Phase 0

Question Number : 90 Question Id : 1051316570 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Type A (augmented) adverse drug reactions are characterized by all except

Options :

1. ✔ Qualitatively abnormal responses to the drug
2. ✖ Predictable from the drug's known pharmacological or toxicological effects
3. ✖ Generally, dose-dependent
4. ✖ Usually common

Question Number : 91 Question Id : 1051316571 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following drugs requires therapeutic drug monitoring?

Options :

1. ✖ Acetaminophen
2. ✖ Amoxicillin
3. ✔ Lithium

4. ✖ Prodrug activated in the liver

Question Number : 92 Question Id : 1051316572 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The hypersensitivity reaction that typically appears 24 - 48 hours after antigen exposure and is mediated by sensitized T lymphocytes is

Options :

1. ✖ Type I hypersensitivity
2. ✖ Type II hypersensitivity
3. ✖ Type III hypersensitivity
4. ✔ Type IV hypersensitivity

Question Number : 93 Question Id : 1051316573 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

According to Good Clinical Practice, informed consent must be

Options :

1. ✖ Obtained only after completion of the trial
2. ✔ Written, voluntary and obtained before trial participation
3. ✖ Taken only in Phase III trials
4. ✖ Waived if the investigator considers the drug safe

Question Number : 94 Question Id : 1051316574 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following pathophysiological events differentiates myocardial infarction from stable angina?

Options :

1. ✖ Transient myocardial ischemia
2. ✖ Reversible myocardial injury
3. ✔ Irreversible myocardial necrosis
4. ✖ Increased myocardial oxygen demand

Question Number : 95 Question Id : 1051316575 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following best describes the dopamine hypothesis of schizophrenia?

Options :

1. ✔ Excess dopamine activity in the mesolimbic pathway leads to positive symptoms
2. ✖ Reduced dopamine in the nigrostriatal pathway leads to cognitive symptoms
3. ✖ Excess serotonin activity causes hallucinations
4. ✖ Dopamine deficiency in the mesolimbic pathway leads to delusions

Question Number : 96 Question Id : 1051316576 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The hallmark of asthma is

Options :

1. ✖ Irreversible airflow obstruction
2. ✔ Chronic airway inflammation with reversible bronchoconstriction
3. ✖ Primary destruction of alveolar walls
4. ✖ Pulmonary vascular remodelling

Question Number : 97 Question Id : 1051316577 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The primary pathophysiological mechanism in type 1 diabetes mellitus is

Options :

1. ✖ Insulin resistance in peripheral tissues
2. ✔ Autoimmune destruction of pancreatic β -cells
3. ✖ Impaired incretin secretion
4. ✖ Excess hepatic glucose uptake

Question Number : 98 Question Id : 1051316578 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The earliest liver lesion caused by chronic alcohol consumption is

Options :

1. ✖ Alcoholic cirrhosis
2. ✖ Alcoholic hepatitis
3. ✔ Fatty liver
4. ✖ Hepatocellular carcinoma

Question Number : 99 Question Id : 1051316579 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Karl Fischer method determines

Options :

1. ✖ Free water only
2. ✖ Bound water only

3. ✓ Total water content

4. ✗ Volatile impurities

Question Number : 100 Question Id : 1051316580 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Phenolphthalein changes colour at pH

Options :

1. ✗ 1.2–2.0

2. ✗ 3.1–4.4

3. ✗ 6.0–7.6

4. ✓ 8.3–10.0

Question Number : 101 Question Id : 1051316581 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Iodometric titration involves

Options :

1. ✗ Direct titration with iodine

2. ✓ Indirect titration using iodine

3. ✗ Acid–base reaction

4. ✗ Precipitation reaction

Question Number : 102 Question Id : 1051316582 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Precision refers to

Options :

1. ✖ Closeness to true value
2. ✔ Reproducibility
3. ✖ Sensitivity
4. ✖ Linearity

Question Number : 103 Question Id : 1051316583 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Calibration ensures

Options :

1. ✖ High sensitivity
2. ✔ Accuracy of instrument readings
3. ✖ Faster analysis
4. ✖ Less reagent use

Question Number : 104 Question Id : 1051316584 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Bathochromic shift refers to

Options :

1. ✖ Shift to lower wavelength
2. ✔ Shift to higher wavelength
3. ✖ Decrease in absorbance
4. ✖ Increase in intensity

Question Number : 105 Question Id : 1051316585 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The chromophore responsible for UV absorption in benzene is

Options :

1. ✖ $\sigma \rightarrow \sigma^*$

2. ✖ $n \rightarrow \pi^*$

3. ✔ $\pi \rightarrow \pi^*$

4. ✖ $n \rightarrow \sigma^*$

Question Number : 106 Question Id : 1051316586 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Carbonyl ($C=O$) stretching vibration appears around

Options :

1. ✖ 1000 cm^{-1}

2. ✖ 1500 cm^{-1}

3. ✔ 1700 cm^{-1}

4. ✖ 3000 cm^{-1}

Question Number : 107 Question Id : 1051316587 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Flame photometry is based on measurement of

Options :

1. ✖ Absorbed radiation

2. ✖ Scattered radiation

3. ✓ Emitted radiation
4. ✗ Reflected radiation

Question Number : 108 Question Id : 1051316588 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Abbe refractometer measures

Options :

1. ✗ Optical rotation
2. ✓ Refractive index
3. ✗ Absorbance
4. ✗ Conductance

Question Number : 109 Question Id : 1051316589 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Bioassay is based on

Options :

1. ✗ Chemical structure
2. ✓ Biological response
3. ✗ Molecular weight
4. ✗ Spectral absorption

Question Number : 110 Question Id : 1051316590 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Indian Pharmacopoeia is published by

Options :

1. ✖ WHO
2. ✖ CDSCO
3. ✔ IPC, Ghaziabad
4. ✖ ICMR

Question Number : 111 Question Id : 1051316591 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Pump used in HPLC should deliver

Options :

1. ✖ Pulsatile flow
2. ✖ Low pressure
3. ✔ High constant pressure
4. ✖ Intermittent flow

Question Number : 112 Question Id : 1051316592 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

End point in conductometric titration is detected by

Options :

1. ✖ Colour change
2. ✔ Sharp change in conductance
3. ✖ pH jump
4. ✖ Potential difference

Question Number : 113 Question Id : 1051316593 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which guideline integrates GMP, GLP and GCP principles globally?

Options :

1. ✖ ISO 9001
2. ✖ WHO guidelines
3. ✔ ICH guidelines
4. ✖ Schedule M

Question Number : 114 Question Id : 1051316594 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Validation is defined as

Options :

1. ✖ Calibration of instruments
2. ✖ Verification of supplier
3. ✔ Documented evidence that a process consistently produces expected results
4. ✖ Training of personnel

Question Number : 115 Question Id : 1051316595 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is NOT a part of GMP?

Options :

1. ✖ Personnel hygiene
2. ✖ Documentation
3. ✔ Clinical trial protocol

4. ✖ Equipment validation

Question Number : 116 Question Id : 1051316596 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Under the Pharmacy Act, 1948, the Pharmacy Council of India (PCI) is constituted under

Options :

1. ✖ Section 2
2. ✔ Section 3
3. ✖ Section 10
4. ✖ Section 15

Question Number : 117 Question Id : 1051316597 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The ex-officio Chairman of the Drugs Technical Advisory Board (DTAB) is

Options :

1. ✖ The Director of the Central Drugs Laboratory
2. ✖ The Drugs Controller General of India
3. ✔ The Director General of Health Services
4. ✖ The President of the Pharmacy Council of India

Question Number : 118 Question Id : 1051316598 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

A retail license for sale of drugs (other than those specified in Schedule C, C(1) and (X)) is issued by which form

Options :

1. ✓ Form 20
2. ✗ Form 21
3. ✗ Form 20-B
4. ✗ Form 21-B

Question Number : 119 Question Id : 1051316599 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Poppy straw, as defined under the NDPS Act, 1985, refers to

Options :

1. ✗ The dried latex obtained from the unripe capsules of *Papaver somniferum*
2. ✓ All parts of the opium poppy plant after harvesting, excluding the seeds
3. ✗ A concentrated extract prepared from poppy seeds
4. ✗ Opium obtained after processing of poppy capsules

Question Number : 120 Question Id : 1051316600 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The National List of Essential Medicines (NLEM) 2025 serves as the basis for price control under

Options :

1. ✗ Pharmacy Act, 1948
2. ✗ Drugs and Cosmetics Act, 1940
3. ✓ Drugs (Prices Control) Order, 2013
4. ✗ Consumer protection Act, 1986

