

SECTION 1 - SECTION 1

Question No.1

HYOSCYAMINE an alkaloid obtained from *Atropa belladonna*.

- Readily racemises to atropine with ethanolic alkali, atropine is (\pm) hyoscyamine
- Readily racemises to atropine with ethanolic alkali, atropine is (+) hyoscyamine
- Readily rearranges into atropine with alkali solution, atropine is (+) hyoscyamine
- Readily disintegrates into atropine with acid solution, atropine is (-) hyoscyamine

Question No.2

Retro Diels-Alder process in Mass spectroscopy occurs in compounds containing

- Benzyl ring
- Methyl ring
- Phenyl ring
- Cyclohexenyl ring

Question No.3

Which of the following is a potent non selective bronchodilator that is not active by oral route

- Aminophylline
- Epinephrine
- Ipratropium
- Cromolyn

Question No.4

Which of the following is the best combination to treat Parkinson's disease

- Amantadine+Levodopa
- Entacapone+Carbidopa
- Carbidopa+Levodopa
- Rimantadine+Levodopa

Question No.5

Phase II reactions of a drug biotransformation:

- Usually leads to inactivation of the drug
- Decreases its water solubility
- Includes activity of cytochrome P-450
- Does not include acetylation

Question No.6

Aloe barbadensis has two of the following characters

(P) The drug obtained is white in color and has a bitter taste

(Q) The drug is opaque, yellowish brown to chocolate brown in color and breaks with a waxy fracture

(R) The drug has a pungent odour and is amorphous under the microscope

(S) Under the microscope, acicular crystals are visible

- Q, R
- Q, S
- P, S

P, R

Question No.7

Pharmacy Council of India (PCI) is reconstituted after every __

- 5 years
- 2 years
- 6 years
- 3 years

Question No.8

Nernst glower IR source is made up of

- silicon carbide
- Zirconium oxide
- Tungsten
- Nichrome

Question No.9

Hypnotic benzodiazepines increases the period of time spent in the following stage of sleep

- REM Stage
- Stage II
- Stage III
- Stage IV

Question No.10

Sol to gel systems are

- Plastic
- Pseudoplastic
- Newtonian
- Dilatant

Question No.11

A drug ending in the suffix (azole) is considered a _____.

- Beta agonist
- Antihistamine
- Antifungal
- ACE inhibitor

Question No.12

IUPAC name of Triflupromazine is

- 10- [3(diethylamino) Propyl]-3- (trifluoromethyl) Phenothiazine
- 10- [2(diethylamino) Propyl]-3- (trifluoromethyl) Phenothiazine
- 10- [2(diethylamino) Propyl]-2- (trifluoromethyl) Phenothiazine
- 10- [3(diethylamino) Propyl]-2- (trifluoromethyl) Phenothiazine

Question No.13

Avicel is

- HPMC
- Mannitol
- MCC
- CMC

Question No.14

Potassium sparing diuretics have the primary effect upon the _____ found in the kidney.

- Collecting duct
- Distal convoluted tubule
- Loop of Henley
- Proximal convoluted tubule

Question No.15

Phenindamine belongs to class of

- Amino alkyl ether
- Piperazine
- Piperidine
- Ethylene diamine

Question No.16

Which is correct stereochemical composition of Levo- Morphine

- 5S, 6R, 9S, 13R, 14S
- 5R, 6S, 9S, 13S, 14R
- 5S, 6R, 9R, 13S, 14R
- 5R, 6S, 9R, 13S, 14R

Question No.17

_____ of the following drugs is associated with the reaction of Tendon dysfunction?

- Tetracycline
- Digitalis
- Fluoroquinolones
- Niacin

Question No.18

Halphen's test is for the identification of

- Olive oil
- Sesame oil
- Cotton seed oil
- Argemone oil

Question No.19

Antipyretic activity of NSAIDS is mostly exhibited due to inhibition of

- PG₁₂
- PGF₂
- PGD₂
- PGE₂

Question No.20

Which of the following factor increases the minimum alveolar concentration of inhaled anaesthesia

- Hypothermia
- Hypoxia
- Hypertension
- Hypernatremia

Question No.21

The FDA requires _____ phases of testing in humans

- Three
- Five
- Four
- Two

Question No.22

Tailing peak in GLC is reduced by

- Tetramethyl silazane
- Dimethyl saline
- Chromosorb.
- Hexa methyl disilazane

Question No.23

Which one of the following is important for the passive absorption of the drug

- Lipid solubility
- Crystal lattice
- Dissociation
- Aqueous Dissolution

Question No.24

_____ is a selective β -2 receptor blocker

- Butoxamine
- Solbutamol
- Atenolol
- Dobutamine

Question No.25

Which of the following drugs have a narrow therapeutic index?

- Desipramine
- Lithium
- Penicillin
- Diazepam

Question No.26

_____ is the most appropriate first line treatment for functional constipation in a one year old child?

- Polyethylene glycol
- Magnesium hydroxide

- Mineral oil
- Sodium phosphate enema

Question No.27

Which of the following is a major clinical complication of oxygen deprivation

- Ataxia
- Anorexia
- Hypoxia
- Atrophy

Question No.28

_____ is used in treatment of emergency hypertension

- Furosimide
- Amelorida
- Indipmide
- Nicardipine

Question No.29

Diphenhydramine belongs to antihistaminic class of

- Alkyl amine
- Ethylene diamine
- Amino alkyl ether
- Phenothiazine

Question No.30

Which heterocyclic ring is present in Amiloride?

- Pteridine ring
- Pyridine ring
- Pyrazine ring
- Pyrimidine ring

Question No.31

X-ray Spectral line $K\alpha$ doublet arises from transition of electrons from

- L to K shell
- K to L shell
- M to L shell
- M to K shell

Question No.32

Biologically active chlorophenicol is

- D-Erythro
- D-Threo
- L- Erythro
- L-Threo

Question No.33

Which of the following shows higher dissolution

- Crystalline form
- Stable form
- Amorphous form
- Hydrate Form

Question No.34

Biphasic drug dissolution is best explained by

- First order
- Zero order
- Korsmeyer- Peppas model
- Higuchi model

Question No.35

_____ is a prophylactic anti-asthmatic agent that stabilizes mast cells:

- Terbutaline
- Ipratropium
- Cromolyn
- Prednisone

Question No.36

Trisulfapyrimidine tablets contains essentially equal quantities of

- Sulfadiazine, Sulfamerazine and Sulfamethazine
- Sulfamerazine, Sulfamethoxazole and Sulfapyridine
- Sulfadiazine, Sulfapyridine and Sulfamethazine
- Sulfapyridine, Sulfamerazine and Sulfacetamide

Question No.37

The antiretroviral drug combination to be avoided is

- Zidovudine + Lamivudine
- Didanosine + Zidovudine
- Zidovudine + Stavudine
- Didanosine + Abacavir

Question No.38

Systemic clearance may be expressed as:

- g/litre
- Weight/volume
- L/hour or ml/per second
- mL/hour

Question No.39

Quality by Design was explained in ICH ____guideline

- R1
- L6
- Q2
- Q8

Question No.40

In Digitalis glycosides C₁₇ position of the steroidal ring is substituted by

- α - β unsaturated five membered lactone ring
- α - β unsaturated six membered lactone ring
- α - β unsaturated six membered ring
- α - β unsaturated five membered lactam ring

Question No.41

Loop diuretics increases urinary excretion of all of the following except

- Uric acid
- Calcium
- Magnesium
- Sodium

Question No.42

Rauwolfia serpentine (Benth.) can be distinguished from other adulterants/substitutes of *Rauwolfia* spp. By

- Presence of calcium oxalate crystals
- Presence of starch grains
- Presence of sclereids
- Presence of trichomes

Question No.43

Highly sensible GC detector is

- Flame capture detector
- Electron capture detector
- Argon ionisation detector
- Katherometer

Question No.44

Tannins give _____ colour with Iron compounds

- Orange
- Light Pink
- Blue Black
- Pale Yellow

Question No.45

Tyrosine kinase inhibitors are useful in the management of _____

- Neurofibromatosis
- Gastrointestinal stromal tumors
- Small cell carcinoma of lung
- Acute myeloid leukemia

Question No.46

_____ the best design to study the prevalence of a disease?

- RCT

- Case control study
- Cohort study
- Cross sectional study

Question No.47

Which of the following is tertiary amine and crosses the BBB?

- Neostigmine
- Pyridostigmine
- Physostigmine
- Edrophonium

Question No.48

Which one of the following alkaloids is derived from Lysine?

- Lobeline
- Stachydrine
- Chelidonine
- Emetine

Question No.49

Which of the following statement is false about Amitriptyline

- Highly protein bound
- Delays Gastric emptying
- Highly lipid soluble
- Low volume of distribution

Question No.50

Pteridine ring is present in

- Spirolactone
- Triamterene
- Chlorthalidone
- Amiloride

Question No.51

Which of the following is a suitable antidote for mercury poisoning?

- Nalorphine
- Atropine
- Naloxone
- Dimercaprol

Question No.52

Continuous flow of fresh dissolution medium is observed in

- USP TYPE V apparatus
- USP TYPE I apparatus
- USP TYPE VII apparatus
- USP TYPE IV apparatus

Question No.53

Action of Chlorpromazine include the following except

- Postural hypotension
- Indifference to external stimuli
- Hypothermia in cold surrounding
- Hypoprolactinemia

Question No.54

The plant hormone which shows specific effect on the cell division

- Abscisic acid
- Auxins
- Ethylene
- Cytokinins

Question No.55

_____ is a carbohydrate containing drug obtained from marine source

- Honey
- Acacia
- Ispaghula
- Agar

Question No.56

Surfactants with antibacterial property are

- Nonionic
- Amphoteric
- Anionic
- Cationic

Question No.57

Reserpine is derived from

- Asparagine
- Tryptophan and Tryptamine
- Squalene
- Homoserine

Question No.58

Glass electrode in pH measurement is

- Ag-AgCl electrode
- Membrane electrode
- Calomel electrode
- Metal –metal oxide electrode

Question No.59

GABA is biosynthesized at the GABAergic neurons by decarboxylation of L-Glutamic acid in the presence of

- Vitamin B2
- Vitamin B6

- Vitamin B1
- Vitamin B12

Question No.60

Xanthene 9-carboxylic acid N,N-diethylamino chloroethane is used in the synthesis of

- Propantheline
- Dicyclomine
- Procyclidine
- Tropicamide

Question No.61

Which of the following is known as the "ginseng of India"?

- Ocimum sanctum*
- Azadirachta indica*
- Withania somnifera*
- Panax ginseng*

Question No.62

Which of the following agencies is not classified as an 'executive agency' for administration of the act under the provision of Drugs and Cosmetics Act 1940?

- Licensing authority
- Drugs Consultative Committee
- Drug inspectors
- Customs collectors

Question No.63

Select the β -lactamase inhibitor.

- Sulfamethoxazole
- Tetracycline
- Clavulanic acid
- Griseofulvin

Question No.64

Which diuretic have steroid nucleus?

- Triamterene
- Amiloride
- Chlorthalidone
- Spiranolactone

Question No.65

The volatile oil of ----- is prepared by pressing (extrusion)

- Citrus sinensis*
- Quercus petraea*
- Salvia Officinalis*
- Thymus vulgaris*

Question No.66



Concerning the effect of pH on the urinary excretion of drugs, it can be correctly stated that

- urinary alkalization accelerates excretion of weak acids. Urinary alkalization has no effect on excretion of weak bases
- urinary acidification accelerates excretion of weak acids and bases
- urinary alkalization accelerates excretion of weak acids and bases
- urinary acidification accelerates excretion of weak acids

Question No.67



Aldesleukin is _____

- Non- glycosylated and has no N- terminal Alanine
- Non-glycosylated and has N- terminal Alanine
- Glycosylated and has no N- terminal Alanine
- Glycosylated and has N- terminal Alanine

Question No.68



Shift in lambda max to higher wavelength is called as

- Hyperchromic shift
- Bathochromic shift
- Hypochromic shift
- Hypsochromic shift

Question No.69



Increasing talc, concentration _____ the dissolution

- doesn't effects
- retards
- Increases
- increases exponentially

Question No.70



Investigational new drug application is filed after

- Phase III Clinical
- Pre- Clinical studies
- Phase I Clinical
- Phase II Clinical

Question No.71



The Food and Drug administration was initially named as

- Food drug and alcohol commission
- Food, drug and Insecticide administration
- Food drug and weapons administration
- Food, drug and hazardous substance regulatory agency

Question No.72



_____ drug produces respiratory depression and so reversed by flumazenil

- Midazolam
- Propofol

- Fentanyl
- Ketamine

Question No.73

HLB value of solubilizing agents is

- 7-9
- 2-7
- 0-2
- 15-18

Question No.74

Half-life of a drug may be helpful to determine:

- Distribution into different body systems
- Dosage schedule of the drug
- Rate of absorption through GIT
- Level of absorption

Question No.75

Diosgenin is

- An alkaloid obtained from dioscorea
- A carbohydrate obtained from dioscorea
- A glycoside obtained from dioscorea
- None of these

Question No.76

Which of the following local anaesthetic is more optically active

- Procaine
- Lidocaine
- Bupivacaine
- Mepivacaine

Question No.77

Surface area of API can be increased by

- chelating agent
- Micronization
- metal complex
- Salt form

Question No.78

An example of pH sensitive polymer is

- Chitosan
- HPMC
- Chitin
- PEG

Question No.79

What constituents are present in the petroleum ether or benzene extract?

- Sesquiterpenoids
- Tropane alkaloids
- Plant sterols
- Purines

Question No.80

Anticholinesterase useful in Alzeimers disease is

- Clioquinol
- Donepezil
- Isoproterenol
- Arecolin

Question No.81

_____ of the following is considered a class IA Sodium Channel blocker?

- Disopyramide
- Aminodarone
- Quinidine
- Propafenone

Question No.82

_____ is a natural fibre that gives test for Sulphur

- Silk
- Cotton
- Jute
- Wool

Question No.83

Antazoline a NSAID has

- Oxazoline ring
- Thiazoline ring
- Pyrazoline ring
- Imidazoline ring

Question No.84

Milliard's reaction occurs in

- Polyols
- oxidising sugar
- reducing sugar
- stable sugars

Question No.85

_____ HPLC grade solvent is used for protein and peptide analysis

- DMSO
- Methanol
- Dimethyl formamide
- Acetonitrile

Question No.86

Ointment base from mineral origin is

- Lanolin
- woolfat
- Beeswax
- Paraffin wax

Question No.87

Clavulanic acid has a β -lactum ring fused to

- Thienyl System
- Thiazole System
- Oxazolidine system
- Thiazolidine Syytem

Question No.88

The mechanism of action of ciprofloxacin is inhibition of:

- Cell wall synthesis
- Protein synthesis by interacting with 30s ribosome
- Protein synthesis by interacting with 50s ribosomes
- DNA synthesis by interacting with topoisomerase

Question No.89

Which of the following is not a class of secondary metabolite

- Phenolics
- Terpenes
- Amino Acids
- Alkaloids

Question No.90

UV light causes

- Excitation of molecules
- Excitation of electron
- Excitation of nucleus
- Excitation of bonds

Question No.91

The usual pediatric dose of Acyclovir is 20mg/kg infused three times a day. What would be the dose in mg for a child with a weight 33lb

- 66mg
- 33mg
- 300mg
- 600mg

Question No.92

Thermolabile drug can be extracted by

- Percolation

- Digestion
- Decoction
- Infusion

Question No.93

_____ is the most important therapeutic indication of Acetazolamide

- Congestive Heart Failure
- Cirrhosis of Liver
- Glaucoma
- Renal insufficiency

Question No.94

The form 1572 statement of Investigator is required by

- Sponsor
- IRB
- FDA
- Investigator

Question No.95

The following antiepileptics does not reduce the effectiveness of oral contraceptives

- Phenobarbital
- Sodium Valproate
- Phenytoin
- Carbamazepine

Question No.96

Histamine concentration is highest in:

- Mast cells
- Beta cells
- Adipocytes
- Lymphocytes

Question No.97

Inulin is a(n)

- Pectin
- Fructosane
- Arabin
- Mannan

Question No.98

Indian (Thinnaveli) and African Senna leaves differ from other with respect to

- Vein islet number
- Stomatal index
- Color
- All of these

Question No.99



Which of the following statements is true of the elimination process?

- The distal tubule is the main site of active secretion
- Cardiac failure leads to increased excretion
- Unchanged molecules may be excreted
- Alkalization of the urine may promote excretion of basic drugs

Question No.100



Micropropagation of the plant is carried out through

- Plant tissue culture
- Cross fertilization
- Seed germination
- Grafting