

NIPER-2007

Q.1 stereoisomer which are not mirror image of each other called?

Ans-diastereoisomer

Q2 biphenyl compound are optically active due to

Ans-atropisomer

Q3 reaction a-----b

Ans $\text{--HgSO}_4/\text{Zn}$

Q4 which base is preferred for elimination over substitution

Ans- EtO^-

Q5 cyclic chain analogue of sugar is called?

Ans-epimer

Q6 fig a fig b are

Ans –epimer

Q7 compared to p-nitrobenzoic acid, p-methoxybenzoic acid is

Ans-less acid

Q8 hybridisation state of carbanion is

Ans- sp^3

Q9 nucleophilic substitution most favoured in

Ans-2, 4, 6, chlorobenzene

Q10 one stereoisomer is predominating in which reaction? Ans stereoselective

Q11 1, 1-dimethylcyclohexane is optically due to

Ans –absence of restriction rotation

Q12 reagent use for epoxidation is
ans-cyclopropoxide

Q13 tropic acid is optically inactive
Ans- absence of chiral centre

Q14 bond length of hydrogen nuclei is
Ans-1.2a

Q15 reagent used in benzoin condensation is
Ans-kcn

Q16 which buffer system provide pH 1.6
Ans citric acid

Q17 pKa of drug is 6.7 and pH of medium 7.4 drug is
Ans-positive charge

Q18 ionic product /autoprotolysis, by increase in temperature
ans –increase

Q19 according to Arrhenius theory pseudo base is
Ans – which bring about to donate OH-

Q20 monoacidic base is
Ans-base which accept H+

Q21 3d arrangement on 2d paper drawn by
Ans- Newman projection

Q22 addition of alkaline and cold KMnO₄
Ans -1,2-diol

Q23 hybridisation state of methyl free radical is

Ans-sp³

Q24 one q . On sequence rule

Q25 geometrical isomer is related to

ans – constitutional isomer

Q26 charged amino acid is

Ans-arginine histine

Q27 geletin have isoelctronic points is

Ans-6.3

Q28 inulin on hydrrolysis to give

Ans-galactosidase

Q29 in protien translation , which amino acid uses

Ans-d. L both

Q30 3d arrangement of protien is

Ans –quaternary struture

Q31 dna folding is

Ans –catalytic phenonmenon

Q32 red colour of blood is due to

Ans-heme and methyl

Q33 degenracy of genetic code is

Ans- code do not overlap

Q34 restrication endonuclease cut

Ans- dna and rna both

Q35 denaturation of protien is by

Ans –heat .ph, alkali

Q36 brij is

Ans- poly alkoxy sorbitn fatty acid ester

Q37 histocompatibility is associated to

Ans-antigen

Q38letter word for tryptophan is

Ans –t

Q39 for sterlisation becteria following are used

Ans-filtration

Q40 trasfer of genetic material to e. Coli is called

Ans-transduction

Q41 pyruvic acid is enter to mitochondria due to

ans pyruvate dehydrogenase is mitochondrial enzyme

Q42 oxidation of fats by

Ans- b- oxidation

Q43 which will give max amount of energy

Ans-1,gm of fats

Q44 activation energy of reaction is

Ans constant

Q45 which thing is determine in aids thearpy

Ans-cd4+ count

Q46 ion linked receptor are

Ans-gaba, glutamate, ach

Q47 tetracycline given along with

Ans-cimetidine

Q48 which antihypertensive drug is given to patient who is on insulin therapy
Ans-atenolol

Q49 which drug available as transdermal form
Ans-clonidine

Q50 which is extensively metabolised
Ans-lidocaine, propranolol

Q51 first pass metabolism occur by
ans-oral route

Q51 true statement about barbiturates is
Ans-narrow therapeutic index. Enzyme induction

Q52 benzapril is
Ans-ace inhibitor

Q53 patient suffering from glaucoma epilepsy, oedema which drug is preferred
Ans-acetazolamide

Q54 drug used in myasthenia gravis is
Ans-edrophonium

Q55 muscarinic agonist is
Ans- bethanecol

Q56 muscarinic antagonist is
Ans-atropine

Q57 pre systemic metabolism cause
Ans –decrease half of drug

Q58 drug absorption effected by
Ans-food, pH of stomach, disease state

Q59 which factor not affect the drug absorption

Ans-patient colour

Q60 true about renal excretion of drug is

Ans-all drug excreted by glomerulus

Q61 which agent used in removing h.pylori

Ans- clarithromycin

Q62 sar is

Ans-study about drug structure for chemical stability

Q63 false about metoclopramide is

Ans - decrease prolactin secretion

Q64 morphine heated with conc. HCl give

Ans-aporphine

Q65 a & b chain of insulin is linked by

Ans-sulphide linkage

Q66 sulphur linkage is formed by

ans- by two cysteine molecule

Q67 phenyl glycine chain is seen in

Ans- ampicillin

Q68 hall mark of diabetic mellitus is

Ans- hyperglycemia

Q69 which drug used in cerebral malaria

Ans- quinine

Q70 which drug is contraindicated with pyrimethamine is

Ans-quinacrine

Q71 e. Histolytica infective state is

Ans- trophozoite

Q72 which of following cause release of 5ht

Ans- stomach secretion

Q73 stomatitis is called

Ans – inflammation of gastric mucosa

Q74 allergic response is due to which antibodies

Ans- iga

Q75 which is true about non epinephrine

Ans- increase bp cardiac potential

Q76 aspirin causes

Ans- decrease mucose production

Q77 moa of antihyperlipidemic is

Ans- inhibit hmg coa reductase

Q78 due to decrease of phosphate level which level is increase

ans- phosphate

Q79 mannitol is not given orally due to

Ans- oral toxicity, unpleasant taste, not absorbed orally

Q80 mannitol is

Ans- osmotic diuretic

Q81 andrographolide is obtained from

Ans- kalmegh

Q82 kuktoside is another name of

Ans – gentiana lutea

Q83 camphothecin inhibits

Ans- topoisomerase -1

Q84 which enzyme break down glycosidase bond

Ans- amylase

Q85 suberin is present in

Ans- cork cell

Q86 which is naturally emulsifying agent

Ans- acacia

Q87 drug resistance occurs due to

Ans- spontaneous mutation

Q88 quality test of suppository is

Ans- melting point, breaking test, dissolution

Q89 sequence of drug dissolution is

Ans- breaking, disintegration, deaggregation, dissolution

Q90 Noyes-Whitney equation is for

Ans- drug dissolution

Q91 hydrophobicity is related

Ans- drug solubilisation

Q92 Hensen paddle test used for

Ans- determination of viscosity of semisolid

Q93 particle size used in sedimentation is

Ans- 1- 1200micron

Q94 unit of viscosity

Ans- poise

Q95 relative gravitational force is ratio of

Ans- rgf/gf

Q96 tandem is

Q97 ratio of methyl and propyl paraben is
ans- 2.5

Q98 for coating which is used
Ans- hpmc & cmc

Q99 monometric is used in
Ans- transdermal system

Q100 autoclave work on
Ans- high pressure

Q101 treated soda lime glass used for preantral purpose in condition of

Q102 ethenyl oxide killed by
Ans- alkalytic dna strand

Q103 de flocculated suspension is
Ans- dilant system

Q104 vanishing cream is
Ans- emulsion base

Q105 in which system dot pattern observed
Ans- o/w

Q106 calcium phosphate is used as
Ans- compressed vehical

Q107 garlic contain
ans- diallyl propyl

Q108 binomial nomenclature related
Ans- specise & genus

Q109 disintegration time of uncoated is
Ans- 15 minute

Q110 type 1 dissolution apparatus is

Ans – rotating basket type

Few more questions from NIPER Aspirants Academy...

Which is not nuclear receptor?

a) Retinoid b) thyroid c) steroids d) excitatory

Which diuretic give fluorescence

A) spiro lactone b) triamterene c) chlorthiazide d) furosemide

The IR region for beta-lactam ring is

A) 1740 b) 1650 c) 1725 d) 1850

Which of the anticancer drug is also having weak disulfiram and MAO inhibitor effect also

A) mitoxantrone b) procarbazine c) cisplatin d) azathioprine

Etoposide inhibits

A) topoisomerase 1 b) topoisomerase 2 c) both a and b d) polymerization of microtubules

Cytotoxic drugs exhibit their immunosuppressive effect by

A) inhibiting proliferation and differentiation of T and B cells b) inhibiting MHC expression c) inhibiting interleukin production d) all

Which of the anticancer is having anti-inflammatory activity also

A) methotrexate b) cyclophosphamide c) azathioprine d) tacrolimus

The drug choice for leishmaniasis

A) stibogluconate b) quinidochlor c) mepacrine d) metronidazole

Which of the amoebicide is having disulfiram like action

A) metronidazole b) tinidazole c) ornidazole d) emetine

Which of the antibiotic can cause visual damage

A)quinodochlor b) chloroquine c) tetracycline d)chloramphenicol

Drug choise for cerebral malaria

A)quinine b) primequine c)proguanil d)pyrimethamine

Which is the nonnucleotide reverse transcriptase inhibitors

A)lamivudine b)nevirapine c) amantidine d) ribavirin

Whitfield ointment contains which of the antifungal drug

A)itraconazole b) terbinafine c) benzoic acid and salicylic acid d) ketoconazole

Which of the cephalosporin is having disulfiram like action

A)ceftriaxone b) cefoperazone c) cefixime d) cefotaxime

Which statement is true about trimethoprim and sulfamethoxazole

A)trimethoprim crosses the bbb and placenta while sulfamethoxazole does not b) both are having almost same half life c) trimethoprim 40% bound to plasma while sulfamethoxazo;e 65% d) all are true

Trehalose is used as

A) Tablet disintegrant b) lyoprotectant c) gelling agent d) stiffening agent

G-protein receptors are

A)monomeric b)dimeric c) trimeric d) tetrameric

Which of the vitamin excreted in urine

A)vitamin b b) vitamin a c) vitamin d d) vitamin e

Which of the amino acid is metal binding and helps in the purification

A)rna b) dna c) proteins d) both a and b

Which is the schedule for the patent filing?

A)u b) v c) w d) f

Patent is valid up to

A)10 years b) 15 years c) 20 years d) 25 years

The pathological effects of diarrhoea are observe because of

A) Endotoxins b) exotoxins c) lipids d) proteins

Causative organism of diarrhoea is

A) Shigella b) salmonella c) pseudomonas d) escherischia

Receptors chemically are

A) Protein b) lipids c) carbohydrates d) none of the above

Which is the schdule for the generic medicines

a) W b) v c) x d) u

Which one of the following is not a static bed dryer

A) Flash b) freeze c) belt d) tunnel

Hydrogen bonding is determined by which spectroscopy

A) Ir b) nmr c) raman d) uv

Find the correct order according to energy diagram

A) Uv > ir > nmr b) ir > uv > nmr c) nmr > uv > ir d) ir > nmr > uv

Crystallization in syrups is prevented by

A) Polyhydric alcohol b) sodium benzoate c) lemon juice d) salt addition

Capacity of 000 capsule is

A) 100 mg b) 500 mg c) 1000 mg d) 1500 mg

At 12 noon, the minute hand is at north-east so at 1.30 pm hour hand will be at

A) East b) west c) north west d) south west

Gallic acid is used as

A) Antimicrobial b) antioxidant c) antileprotic d) none of the above

Ind is issued before

A) Starting animal trials b) starting phase iv c) starting human trials d) starting phase i trials

Reference used in pmr is

A) Trimethyl silane b) ethanol c) chloroform d) none of the above

Submerged culture is difficult for

- A) Bacteria b) yeast c) filamentous fungi d) none of the above

Dna is situated in cell in

- A) Cytosol b) membrane c) mitochondria d) ribosome

Rs in ip stands for

- A) related substance b) biological substance c) chemical substance d) reference standard

Which one of the following is protogenic in nature

- A) Barium fluoride b) aluminium trichloride c) acetic acid d) none of the above

Vehicle used in soft gelatin capsule is

- A) Water b) peg 400 c) peg 2000 d) glycerine

Nujol is

- A) Mineral oil b) vegetable oil c) animal fat d) plant tissue

Which drug is used for parkinsonism

- A) A-methyl dopa b) a-methyl dopamine c) dopa d) a-methyl tyrosine

Drug used in gastric ulceration is

- A) Pirenzepine b) oxyphenonium c) propantheline d) atropine

Saffron is grown in india in

- A) Jammu & kashmir b) meghalaya c) arunachal pradesh d) himachal pradesh

Bacteria is not present in

- A) Ice b) distilled water c) potable water d) none of the above

Difference between eye drop & injection is

- A) eye drop are non pyrogenic b) eye drops may be sterile or not be pyrogen free
c) injection is sterile and non pyrogenic d) injection are non pyrogenic

Mechanism of action of omerprazole is inhibition of

- A) h^+ / k^+ atpase b) na^+ / k^+ atpase c) k^+ / atp protein d) h^+ / cl^- protein

Isradipine is

A) 1, 4 dihydropyridine b) benzothiazepine c) arylalkyl amine d) piperidine dione

Sds-page experiment is

A) Immunoblotting b) chromatography c) electrophoresis d) none of the above

Most commonly used hplc is

A) Normal phase b) reverse phase c) gel permeation d) ion-pair

Cardiotoxicity is side effect of

A) Adriamycin b) bleomycin c) vancomycin d) mitomycin

Cough is side effects of

A) Prazocin b) captopril c) propranolol d) dexamethasone

Albuterol is specific for _____ receptors

A) B1 b) b2 c) b3 d) a1

Which statement is not true for enalapril

A) It blocks angiotensin i b) it blocks angiotensin ii c) it blocks ace d) none of the above

Back titration is done for

A) Strong acid weak base titration b) weak acid base titration c) weak acid strong base titration d) strong acid base titration

Indole alkaloids are biosynthesised from

A) Tryptamine b) tryptophan c) tyramine d) tyrosine

Accelerated stability study is carried out for injection at

A) 50c b) 250c c) 470c d) 300c

Statins are used for

A) Decreasing blood glucose level b) decreasing blood cholesterol c) decreasing blood thyrosine level d) decreasing blood calcitonin

Complete the series 1, 9, 17, 33, 49, 73,..... ?

A) 99 b) 97 c) 101 d) 91

Aspirin acts as

- A) Cox i inhibitor b) cox ii inhibitor c) cox iii inhibitor d) lox inhibitor

Which one is endothermic process ?

- A) Distillation b) evaporation c) sublimation d) crystallization

Duration of action for bioadhesive buccal gel

- A) ~ 8 hrs. B) ~ 1hr c) ~30 min d) ~ 24 hrs

Dissolution time for mouth dissolving tablet is

- A) Less than 3 minute b) 40-50 seconds c) 3-4 minutes d) 5 minutes

Niosomes are prepared from

- A) Phospholipids b) lecithin c) nonionic surfactant d) spingolipid

1, 4 - dioxane gives _____ peaks in nmr

- A) Single singlet b) double doublet c) 4 d) 3

Class 10 room has particle count

- A) Nmt 100 particle/cfl 0.5 and larger m b) nmt 100 particle 0.1m c) nmt 100 particle 1m d) nmt 100 particle 0.01 m

In biopharmaceutical classification class ii drug are with

- A) Low solubility and high permeability b) with high solubility and low permeability c) low solubility and low permeability d) high solubility and high permeability

Absorption rate for multiple compartment can be determined by accurately

- A) Method of residual b) wagner-nelson method c) loo-rigleman method d) sigma method

Drug protein binding can be determined by

- A) Chromatography b) dialysis c) phase separation d) langmuirs method

Shock organ in anaphylaxis is

- A) Liver b) lung c) kidney d) spleen

Water number characteristic of

A) Gelatin b) soft gelatin c) lanolin d) carnuba wax

Pigment of tomato is

A) G-carotene b) b-carotene c) lycopene d) tomatine

Intrinsic desolution is

A) Dissolution from constant surface area b) dissolution from constant volume of medium c) dissolution from sustained drug dosage formulation d) dissolution in site specific drug delivery

If two amide bonds are present so the peptide will be

A) Dipeptide b) tripeptide c) tetrapeptide d) pentapeptide

Which one of the following does not show polymorphism

A) Phenobarbitan b) acetaminophen c) terfenadine d) none of the above

Tax free port in india is

A) Vishakhapatnam b) mumbai c) kandala d) marmagao

Prostaglandins are synthesized by

A) Cox b) lox c) plc d) plk

Number of double bonds in molecule is estimated by

A) Ir b) nmr c) esr d) uv

Adverse effect of terfenadine include

A) Ventricular tachycardia b) bradycardia c) hepatotoxicity d) neurotoxicity

Metals and metalloids are detected by

A) Flame photometry b) atomic absorption c) fluorimetry d) all of the above

Range of visible region is

A) 400 - 800 nm b) 200 - 400 nm c) 600 - 800 nm d) 800 - 1800 nm

Krafft point is the point at which _____ of the surfactant equals cmc

A) Lipophilicity b) hydrophilicity c) solubility d) none of the above

ChCl₃ & NaOH react to form 1, 2 -dichloro acrbene. The type of reaction is

A) S_N1 b) S_N2 c) E1cB d) none of the above

L-threose & l-erythrose are

- A) Enantiomers b) diastereomers c) rotamers d) epimers

The highest gold number is

- A) Gelatin b) albumin c) acacia d) tragacanth

Dielectric constant for mineral oils are

- A) 0 b) 5 c) 30 d) 80

Internally coded inheritable information carried by all living organisms is known as

- A) Genotype b) phenotype c) metabotype d) pharmacogenomics

Abc & slc are the superfamilies of

- A) Enzymes b) receptors c) carrier proteins d) histones

The first metabolic studies (on benzoic acid) was carried out by

- A) Alexander Flemming b) Alexander Ure c) Damagk d) Aldrich

Which one of the following is enzyme inhibitor

- A) Grape fruit juice b) apple juice c) mango juice d) none of the above

Causative organism of syphilis is

- A) *Trichuris trichiuri* b) *Trichomonas dimanata* c) *Leishmania donovani* d) *Trypanosoma gambiense*

For Karl Fischer reagent the solvent is

- A) Water b) ethanol c) pyridine d) pyrimidine

Ozone has strong absorption at λ _____

- A) 254 nm b) 200 nm c) 175 nm d) 454 nm

Cyclodextrin is used as

- A) Complexing agent b) solubilizing agent c) odour masking agent d) all of the above

Licosorb 18 column has the packing of _____

- A) C8 b) C12 c) C18 d) C3

The purpose of guard column is to

- A) increase life span of analytical column
- B) to increase column efficiency
- C) to presaturate the analytical column
- D) all of the above

The synthetic antimalarial with phenanthrene nucleus is

- A) artemesinine b) halofantrine c) pyrimethamine d) none of the above

Cyano group is identified by ir absorption band at

- A) 1000 - 1500 b) 1500 - 2000 c) 2000 - 2500 d) 3000 - 3500

Anticholinesterase useful in alzheimer's disease is

- A) Arecoline b) donepenzil c) clioquinol d) isoproterenol

The cut off point for ethanol used as solvent in uv spectroscopy is

- A) 190 b) 200 c) 207 d) 280

Dsc curve is based on a modified form of

- A) von't hoff equation
- B) van demeter equation
- C) vander wall's equation
- D) van li equation

The analytical reagents especially those used in titrimetric analysis as primary standard can be assayed by

- A) dsc b) dta c) thermogravimetry d) tga

Supreme commander of all defence forces is

- A) president b) air field marshal c) chief of army staff d) chief of naval staff

Rajesh took loan of 12,000 rupees. After 5 years he paid 3600 rupees as interest. What is the rate of interest per annum

- B) A) 7.5 % b) 3 % c) 8 % d) 9.5 %

Which one of the following is antihyperlipoproteinemic compound

- A) caroxazone b) carperone c) carnitine d) carphenazine

Flutamide is

A) anti estrogen b) anti androgen c) anti somatostatin d) none of the above

Chitosan is soluble in

A) water b) ethanol c) acidic solution below 6 d) alkaline solution above 6

Cow's urine is used as

A) biocatalyst b) bioorganic product c) bioenhancer d) none of the above

The botanical source of feverfew is

A) scrophularia aquatica b) ficus carica c) parthenium chrysanthemum d) sterculia

Siemthicone is a silyl polymer with number of monomers ranging from

A) 20 - 400 b) 200 - 350 c) 20 - 2000 d) 350 - 800

Source of veegum is

A) natural, plant b) natural, mineral c) artificial d) semisynthetic

Acidic or enzymatic incomplete hydrolysis of starch gives

A) dextrose and fructose b) dextrin c) maltose d) mixture of dextrose, fructose, maltose and dextrin

Which one of the following is dopamine agonist

A) Entacapone b) phenelzine c) selegiline d) bromocriptine

Uric acid is the metabolic product of

A) purine b) pyrimidine c) folic acid d) pteridine

Extinction coefficient is dependent upon

A) path length b) molecular weight c) molar concentration d) all of the above

Glycosides are

A) acetals b) hemiacetals c) ketals d) hemiketals

Schiff's base formation is characteristic of

A) alcohol b) aldehydes - ketones c) acids d) esters

Commonly used concentration of benzyl alcohol in parenterals is

A) 0.5 % b) 1 % c) 1.5 % d) 2 %

Constant phase of bacterial growth is

- A) log phase b) lag phase c) stationary phase d) death phase

Endogenous anticoagulant is

- A) renin b) heparin c) vit. K d) ubiquinone

Autoimmune diseases are all of the following except

- A) Myasthenia gravis b) rheumatoid arthritis c) multiple sclerosis d) sickle cell anemia

Nuclear overhauser effect is not observed for nuclei separated by more than about

- A) 10a b) 2.50a c) 30a d) 3.50a

Commonly used carrier gas in gc is

- A) Hydrogen and helium b) oxygen and nitrogen c) nitrogen and helium d) hydrogen and nitrogen

The use of alkaline element is precluded in hplc because

- A) siliceous bonded phases are stable at ph higher than 8
B) siliceous bonded phases are not stable at ph above 8
C) ion suppression is efficient
D) ion suppression is promoted

The mechanism of sterilization by hot air is

- A) protein denaturation b) oxidation c) plasmolysis d) destruction of dna

Major causes of tailing and memory effects in adsorption chromatography is

- A) insufficient deactivation of silica or alumina
B) over activation of silica or alumina
C) insufficient flow rate of mobile phase
D) over activation of flow rate of mobile phase

Aerobic respiration causes generation of

- A) 36 b) 38 c) 2 d) variable

Ames test uses as carcinogen indicator

- A) viruses b) fungi c) chlamydia d) bacteria

Bt cotton are resistant to infections of insects because of _____ genes from bacillus thuringiensis

A) antisens b) toxin producing c) cellulose degrading d) nonsense

Beta carboline ring system is present in

A) emetine alkaloid b) cortisone acetate c) deserpidine molecule d) atropine alkaloid

Benzodiazepines potentiate

A) the binding of protein to nervous tissue b) the binding of gaba to liver c) the binding of gaba to receptors d) the binding of gaba to carbohydrates

Secobarbital is _____ drug

A) schedule g b) schedule h c) schedule q d) schedule x

Urea condenses with benzil to produce

A) Hydantoin b) phenytoin c) paramethadione d) phensuximide

Hepatitis virus is

A) single stranded dna b) single stranded rna c) double stranded rna d) double stranded dna

Most bacteria of medical importance are

A) obligate aerobes b) obligate anaerobes c) facultative aerobes d) facultative anaerobes

Which one of the following bacillus cannot be grown in culture media

A) mycobacterium tuberculosis b) mycobacterium leprae c) bacillus anthrax d) salmonella typhi

Which of the following is best indicator of faecal pollution of water

A) chandler's index b) coliform count
C) fecal streptococci count d) clostridium perfringens count

Jaswant singh and bhattacharji stain is a rapid method of staining

A) malaria parasite b) filaria parasite c) babesia d) any hemoflagellate

Which one of the following herbals exhibits the least effect on blood coagulation

A) echinacea b) garlic c) ginseng d) ginkgo

Which one of the following beta adrenergic blocking agents has the greatest lipid solubility

A) esmolol b) pindolol c) acebutolol d) propranolol

Calcium channel stimulant is

A) tetrodotoxin b) ciguatoxin c) maitotoxin d) bungarotoxin

A broad spectrum anthelmintic from marine source is

A) Ivermectin b) pyrantel c) doxycycline d) α -kainic acid

The gum from bacterial source is

A) Tragacanth b) guar gum c) karaya gum d) xanthan gum

The bioavailability of steroids can be manipulated by forming

A) salt b) acetonide c) ester d) all of the above

C₁₀H₁₆O chemically is

A) β -naphthol b) phenanthrene c) camphor d) aldosterone

Correct equivalent for -100c is

A) -100f b) +220f c) -180c d) +140f

The drug that aggravate bronchial asthma is

A) amphetamine b) morphine c) propranolol d) tubocurarine

The specific unwanted effect of l-dopa is

A) dementia b) hypertension c) dyskinesia d) excitotoxicity

In the IR spectra the compounds

i) cyclobutanone ii) cyclopentanone iii) cyclohexanone appear in the following order of decreasing frequency

A) i > ii > iii b) ii > i > iii c) iii > ii > i d) ii > iii > i

The number of rings found in β -carotene is

A) 1 b) 2 c) 3 d) 4

The 1, 2, 4 - trioxane ring is found in which of the following antimalarial

A) antimalarin b) proguanil c) cycloguanil d) halofantrine

The adrenergic receptors found in fatty tissues is

A) β_1 b) β_2 c) β_3 d) β_{1b}

Folic acid deficiency cause

A) Megaloblastic anemia b) monocytic anemia c) hemolytic anemia d) sickle cell anemia

The absorption wave number of carbonyl group in

i) methyl benzoate ii) phenyl acetate iii) ethyl acetate will be in order

A) $i < ii < iii$ b) $iii > ii > i$ c) $ii > iii > i$ d) $ii > iii > ii$

The two chains of amino acid in insulin are held together by

A) sulphide linkage b) hydrogen bonds c) ionic bonds d) all of the above

The third edition of Indian Pharmacopoeia was published in

A) 1966 b) 1955 c) 1996 d) 1985

Principle involved in roller mill for size reduction is

A) cutting b) compression c) compression & shear d) compression & cutting

The spontaneous loss of water from salt hydrate at room temperature without heating called as.

A) efflorescence b) exitation c) deliquescence d) all of the above.

The unit used for measurement of radiation dose is.

A) rad b) roentgen c) 100 ergo / gram d) none of the above

From following which is the best example of shear thinning.

A) acetone b) alcohol c) carboxymethyl cellulose d) starch

Calculate the HLB of polyhydric alcohol fatty acid ester having saponification value 240, acid value -?

A) 3.8 b) 4.3 c) 3.6 d) 4.8

Combination of cholesterol or lanolin fractions with white petrolatum violable commercially under trade name as

A) kessoline b) eucerin c) carbopol d) polyox

Nordihydro guaiaretic acid (ndga) is used as.

A) Preservative b) glidant c) antioxidant d) colourant

Which is the formula for preparing primary emulsion by using almond oil. Oil : gum : water

A) 2 : 1 : 2 b) 1 : 1 : 2 c) 4 : 1 : 2 d) 1 : 4 : 2

Omni quarto hora means.

A) every hour b) every fourth hour c) every two hour d) none of the above.

How many physicians should be their in the ptc at least

A) 01 b) 02 c) 03 d) none of the above

What will happen to insulin requirement when patient undergo aspirin & oral hypoglycemic agent interaction

A) decreases b) increases c) both a & b d) non the above

Licensed premises for the sale of the drug which require the services of a qualified person out where the drugs are not compound against prescription are called

A) drug store b) pharmacy c) chemists & druggists d) none of these

Drug technical advisory board (dtab) consult of following number of ex-officio member

A) 6 b) 10 c) 3 d) 8

In case of condoms the functions of cdl are carried out at which centre

A) central research institute, kasuali b) central drug research institute, lukhnow c) central indian pharmacopoeia ltd. D) dept. Of biochem engg iit, delhi

Which schedule state life period of drugs

A) p b) w c) o d) r

Central govt. Replaces dpco 1987 by

A) dpco 1995 b) dpco 1992 c) dpco 1990 d) none of these

Schedule r (1) stands for

- A) standard for condemnns b) standard for medical devices
- C) standard for cosmetics d) standard for ophthalmics

Under drugs & cosmetics act, a person registered by medical council of india with proper degree is

- A) meidical practioner b) registered medical practioner c) pharmacist d) registered pharmacist

How many members should be selected from incharge of drug controll in state as a nominated members for formulating dtab

- A) 2 b) 1 c) 3 d) 4

Cdl is situated at

- A) gaziabad b) calcutta c) lucknow d) kasuali

Retail price not to be exceed means

- A) local taxes extra b) inculsive of all taxes c) exculsive of all taxes d) all of the above

On which from the licence is issued to wholesaler for sale stock & exhibit for sale & dstut drug gelensing to c, fc (i)

- A) 20 b) 21-b c) 20-g d) 21-bb

Licensing authority is appoined by

- A) central govt. B) state govt. C) both d) none of these

Drug inspector is appointed in relation to ayurvedic system under which section

- A) 33-f b) 33-4 c) 21 d) 20

Bioflavonoids were earlier knwon as

- A) vit. C b) vit. P c) vit. Y d) vit. M

Tropane ring is composed of

- A) imidazole & pyridine ring b) pyrrolidine & piperidine ring c) pyrrolidine & piperazine ring d) imidazole & indole ring

Aconitine on hydrolysis gives

- A) benzoic acid + acetic acid + aconine b) cinnamic acid + tropic acid + aconine

C) cinnamic acid + methyl alcohol + benzoyl aconine d) formic acid + methanol + benzoyl aconine

The permeation enhancer used is

A) cmc b) microcrystalline cellulose c) sodium taurocholate d) cyclodextrin

Ergot is produce during

A) honeydew stage b) sclerotium stage c) ascospore d) sphaelia

Choose the pair that best expresses a relationship similar to that expressed by original pair

Trap : game ::

A) novel : author b) net : fish c) wall : house d) curtain : window

Analgesic : pain ::

A) expenses : audit b) durability : hardware c) improvisation : jazz d) lubricant : friction

Antonym of sublimity is

A) erosion b) baseness c) partiality d) insistence

Antonym of tedious is

A) unlimited b) confined c) enthralling d) illuminating

If the value of a piece of property decreases by 10 percent while tax rate on the property increases by 10 percent, what is the effect on the taxes ?

A) Taxes decrease by 10 percent b) taxes increase by 1 percent c) there is no change in taxes d) taxes decrease by 1 percent

Joe works two part-time jobs. One week joe worked 8 hours at one job, earning rs. 150 and 4.5 hours at the other job, earning

Rs. 90. What were his average hourly earnings for the week ?

A) rs. 8 b) rs. 9.6 c) rs. 16 d) rs. 19.2

P q r s t if the spaces between the lettered points in the figure above all equal, then $pq - qs$ is

Equal to which of the following? 2 2

A) $ps - qr$ b) $qr - qs$ c) pr d) st

The range of hlb of 1-3 can be availed to get effect of

A) solubilization b) wetting c) antifoaming d) foaming

For symmetrical distribution such as the normal distribution value of

A) mean = median = mode b) mean > median > mode c) mean < median < mode d) mean = median > mode

For data skewed to the right

A) mean = median = mode b) mean > median > mode c) mean < median < mode d) mean = median > mode

Ketamine gel applied to joints for reducing pain in knee joint can be classified as

A) a topical drug delivery system b) a transdermal drug delivery system c) both a and b d) neither a nor b

Amide group appears at which frequency in ir spectra

A) 1750 cm⁻¹ b) 3000 cm⁻¹ c) 800 cm⁻¹ d) none

The ideal particle size for aerosol systems to deliver drugs to the deep lung area is

A) 100 to 200 mm b) 1 to 10 mm c) 5 to 100 mm d) 1 to 5 mm

Which of the follwoing are not methods used to increase permeability of macromolecules through skin ?

A) senophoresis b) iontophoresis c) electroporation d) dermaphoresis

Lipophilicity of a drug in water is determined by

A) charge of molecule b) log p c) water temperature d) all of the above

The degree of repulsion between adjacent particles of similar type in dispersed system is controlled by

A) nernst potential b) zeta potential c) both a and b d) none of the above

In a mixture of 30% span 80 (hlb = 4.3) & 70%. Tween 80 (hlb = 15). What is the overall hlb value ?

A) 9.65 b) 10 c) 11.8 d) none

When the plot of $-d\alpha/dt$ vs c is horizontal line parallel to x-axis the order of reaction is

A) second b) first c) zero d) cannot say

Healthy subjects are evaluated in which phase of drug development

A) phase i b) phase ii c) phase iii d) phase iv

Finished capsules normally contain an equilibrium moisture content of

A) 10-12% b) 13-16% c) 17-18% d) 40-60%

Which of the following does not yield a number average molecular weight ?

A) viscometry b) osmometry c) cryometry d) ebulliometry

Starch is digestible by humans, but cellulose is not

A) starch contain a linkage in polysaccharide b) starch contain β linkage in polysaccharide c) both a and b d) none

The particle size of adsorbent in hptlc is

A) 0.5 - 20 mm b) 10 - 50 mm c) 10 - 15 mm d) none

The long form of cdsco is

A) central drugs standards control organisation b) central drugs & cosmetic organisation

C) central for drugs & cosmetics d) central drug standards & cosmetics organisation

The long form of wipo is

A) world intellectual patent office b) world international patent office

C) world intellectual property organisation d) world intellectual property office

The first emr (exclusive marketing right) was granted in india to

A) cipla b) ranbaxy c) sun pharma d) novartis

To formulate a pressurized metered-dose inhaler (pmdi), the formulation scientist has following options for delivering an nce

A) powder b) suspension c) solution d) all of the above

The evaluation, optimization and control of flow and dispersion (deaggregation) characteristics of the formulation are critical in case of

A) pressurized metered-dose inhaler b) dry powder inhalers c) nebulizers d) all the three

Which of the following is bacterial toxin ?

A) phospholipase a-1 b) phospholipin a-2 c) atropholipase c d) phospholipase d

Hormones that increase cholesterol synthesis is

A) insulin b) glucagon c) thyroxin d) glucocorticoid

Which of the following is not isosteric group of $-CH_3$

A) $-CH_2$ b) $-NH_2$ c) $-OH$ d) $=N$

In the dna structure, the groove appears at every

A) 2.5 Å b) 3.4 Å c) 2 Å d) 5.5 Å

The active species in 'Fries rearrangement' is

A) anion b) cation c) free radical d) all of the above

Papulocardins and echinocardins have potential antifungal property. They

A) inhibit α -glycan synthetase non-competitively b) inhibit chitin synthase competitively c) bind to mannoproteins d) inhibit ipc synthase

Normally polymer drug conjugates achieve tumor-specific targeting because of the epr. Epr means

A) endoplasmic reticulum b) effective permeation rate c) enhanced permeation and retention d) electro plate retention

The latest antifungal agent is

A) amphotericin b) voriconazole c) fluconazole d) griseofulvin

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