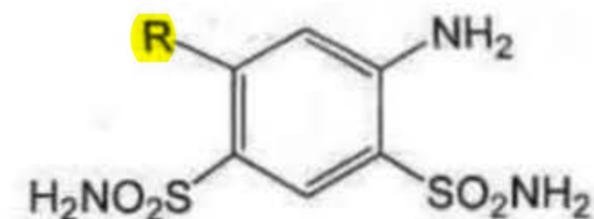


Linctus is used to treat:

- A) Gingivitis                      B) Cough                      C) Mouth ulcers                      D) Tooth ache

Maximum diuretic activity of meta-disulfamoyl benzene is shown when the R group is



- A) -Cl, -CF<sub>3</sub>  
 B) -H, -Br  
 C) Both  
 D) None

What is co-trimoxazole?

- A) Sulfamethoxazole + trimethoprim, 3:1                      B) Sulfadoxine + pyrimethamine  
 C) Sulfamethoxazole + trimethoprim, 5:1                      D) sulfacetamide, sulfathiazole, and sulfabenzamide

All of the following are leaf constants EXCEPT:

- A) Vein-islet number                      B) Vein-termination number  
 C) Stomatal number                      D) Leaf fiber

Zinc chloride is added to mouth wash because it acts as

- A) Fragrance                      B) Astringent                      C) Cooling agent                      D) Antibacterial

The choice of route of administration plays an important role in action of directly acting cholinomimetic. Adverse effect of choline esters that may be avoided by selection of an appropriate route of administration is:

- A) Bradycardia                      B) Hypotension                      C) Delirium                      D) Sweating

Sieve size 80 has opening of:

- A) 0.100 mm                      B) 0.125 mm                      C) 0.150 mm                      D) 0.180 mm

The ideal saponification value for suppository base is:

- A) 50-100                      B) 100-150                      C) 150-200                      D) 200-250

What class of cephalosporins is illustrated by cefuroxime?

- A) Oximinocephalosporins                      B) Aminocephalosporins  
 C) Iminocephalosporins                      D) Furylcephalosporins

Which of the following drug comes under Schedule C1

- A) Opium                      B) Ergot                      C) Fish liver oil                      D) Insulin

Source of amla is:

- A) *Phyllanthus niruri*                      B) *Terminalia chebula*                      C) *Terminalia bellerica*                      D) *Emblica officinalis*

What is the unit of dielectric constant?

- A) Dyne                      B) Debey                      C) Farad/meter                      D) No unit

Which of the following is NOT true of jet nebulisers? Jet nebulisers:

- A) produce mists.

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- B) use high velocity gas flows to generate the Venturi effect to draw solution into the airflow.
- C) induce decrease in temperature of the nebuliser solution during operation
- D) use ultrasonic forces to produce the aerosol

Of the following antibiotics, which one would be acceptable to use when treating penicillin-resistant *S. pneumoniae* otitis media?

- A) Azithromycin
- B) Clarithromycin
- C) Cefuroxime
- D) Cefaclor

Addition of which of the following to a large volume parenteral product is not advised?

- A) active pharmaceutical ingredient
- B) preservatives
- C) buffering agents
- D) tonicity adjusters

A drug suspension decomposes by zero-order kinetics with a rate constant of  $2 \text{ mg mL}^{-1} \text{ month}^{-1}$ . If the initial concentration is  $100 \text{ mg mL}^{-1}$ , what is the shelf life?

- A) 2 months
- B) 3 months
- C) 4 months
- D) 5 months

The range of absolute bioavailability is:

- A) 0 to 1
- B) 0 to 100
- C) -1 to 1
- D) -1 to 100

Antidote for paracetamol overdosing is

- A) Atropine
- B) N-Acetyl cysteine
- C) Glutathione
- D) Theophylline

Which one of the following drug combination is contraindicated?

- A) Glyceryl trinitrate and Sildenafil
- B) Amoxicillin and Clavulanic acid.
- C) Losartan and hydrochlorothiazide
- D) Pyrimethamine and sulfadoxime

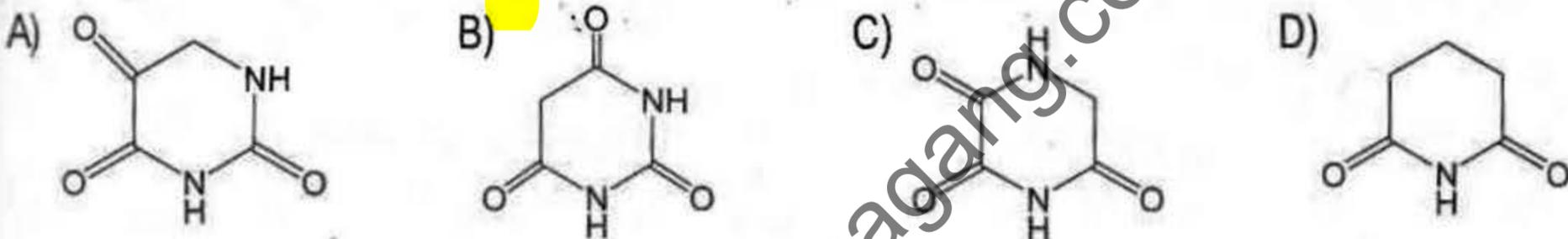
Which sugar is suitable for diabetic patient?

- A) Fructose
- B) Lactose
- C) Mannitol
- D) Sucralose

Headquarter of Bureau of Indian Standards is situated at:

- A) New Delhi
- B) Mumbai
- C) Kolkata
- D) Chennai

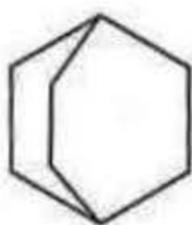
Identify the structure of barbituric acid.



Ethics for pharmacist are put forth by:

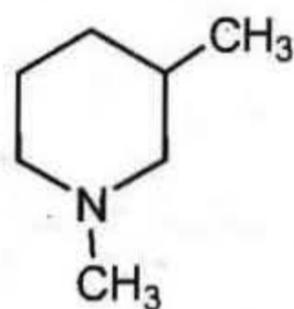
- A) PCI
- B) CDSCO
- C) AICTE
- D) WHO

What is the IUPAC name of the following compound?



- A) Bicyclo[2.2.2]octane
- B) Tricyclo[2.2.2]octane
- C) Bicyclo[2.2.0]octane
- D) Bicyclo[2.2.1]heptanes

What is the IUPAC name of the following compound?



- A) 1,3-dimethylpyridine
- B) 1,3-dimethylpiperidine
- C) 2,4-dimethylpiperidine
- D) 2,4-dimethyl-1,2,3,6-tetrahydropyridine

Which of the following is seed gum?

- P) Guar gum
- Q) Locust bean gum
- R) Xanthan gum
- S) Gellan gum
- A) P and Q
- B) R and S
- C) Q and R
- D) P and S

The cancer that is derived from ectoderm or endoderm of epithelial cells is:

- A) Carcinoma
- B) Sarcoma
- C) Leukaemia
- D) Myeloid

Which of the following is/ are marine anticancer?

- A) Trabectadine
- B) Eribulin
- C) Cytarabine
- D) All of the above

Identify the compound which is derived from tryptophan.

- A) Pilocarpine
- B) Ephedrine
- C) Muscarine
- D) Quinoline

Opium, cocoa, poppy straw are given in:

- A) Schedule H
- B) Schedule X
- C) Narcotic drugs and Psychotropic substances act. 1985
- D) Schedule C

Which of the following will be inert in NMR spectrometry?

- A)  $^{13}\text{C}$
- B)  $^{31}\text{P}$
- C)  $^2\text{H}$
- D)  $^1\text{H}$

What is the relationship between keto and enol tautomers?

- A) resonance forms
- B) stereoisomers
- C) constitutional isomers
- D) different conformations of the same compound

Which of the following is true for natural killer cells?

- A) They may phagocytose tumor cells
- B) Killing of cells is enhanced by interleukin-2
- C) They recognize and kill some virus-infected cells
- D) Killing of cells is stimulated by prostaglandin E<sub>2</sub>

Evaluation of colour in tablets is done by:

- A) Reflectance spectrophotometer
- B) Tristimulus colorimeter
- C) Microreflectance photometer
- D) All of the above

The disintegration time of the effervescent tablets is:

- A) 2 minutes
- B) 2.5 minutes
- C) 3.5 minutes
- D) 5 minutes

Identify the false Statement/s about magmas:

- P. The addition of suspending agents to magmas is always necessary.
- Q. Magmas differ from gels in that their suspended particles are larger.
- R. Magmas are two-phase systems.
- S. Magmas basically are gels.

- A) P and Q
- B) Q and R
- C) Only P
- D) Only S

All of the following ACE inhibitors are prodrugs EXCEPT:

- A) Ramipril                      B) Lisinopril                      C) Enalapril                      D) Perindopril

Which of the following is resistant to both true and pseudo-cholinesterase enzymes?

- A) Carbachol                      B) Acetylcholine                      C) Methacholine                      D) Pilocarpine

Globule size of parenteral emulsion should be:

- A) 0.1 to 0.5  $\mu\text{m}$                       B) 0.5-5  $\mu\text{m}$                       C) 5 -10  $\mu\text{m}$                       D) Any of the above

The objective of audit is to:

- A) Improve the product quality                      B) find out the fault  
B) Improve the product value                      D) find and process fault and to improve

— is an alkaloid derived from aliphatic amino acid.

- A) Reserpine                      B) Nicotinic acid                      C) Anabasine                      D) Vinblastine

The drug sulpham blue is obtained from — source

- A) Plant                      B) Animal                      C) Synthetic                      D) Mineral

Pharmapoeial limit for acid value of carnauba wax is:

- A) below 1                      B) below 2                      C) 2 to 7                      D) 17 to 22

Zona fasciculata of suprarenal gland produces —.

- A) Minerelocorticoids                      B) Glucocorticoids                      C) Sex hormones                      D) Adrenaline

According to Maslow's hierarchy of motives, which of the following needs must be satisfied before a person can attain esteem?

- A) Safety                      B) Cognitive                      C) Self-actualization                      D) Aesthetic

Actions and clinical uses of muscarinic cholinceptor agonists include which one of the following?

- A) Bronchodilation (asthma)  
B) Improved aqueous humor drainage (glaucoma)  
C) Decreased gastrointestinal motility (diarrhea)  
D) Decreased neuromuscular transmission and relaxation of skeletal muscle (during surgery)

Regarding the role of surfactants in pharmaceutical suspensions for oral administration, which of the following statements is false?

- A) Surfactants decrease the water contact angle of dispersed drug particles.  
B) Surfactants promote flocculation.  
C) Surfactants with high HLB stabilise oral suspensions.  
D) Surfactants increase the viscosity of the continuous phase of pharmaceutical suspensions.

Which of the following drug is NOT used in treatment of *H.pylori* infection

- A) Ampicillin                      B) Clarithromycin                      C) Mosapride                      D) Bismuth subgallate

The most suitable disinfectant for decontamination of HIV contaminated endoscope is

- A) 1% sodium hypochlorite
- B) 2% glutaraldehyde
- C) 5% phenol
- D) 70% ethanol

Which rule does provide the most accurate method to calculate the dose for child based on adult dose

- A) Age in months
- B) Age in years
- C) Weight in pounds
- D) Body surface area

Chemokine co-receptor 5 (CCR 5) inhibitor is:

- A) Enfuvirtide
- B) Maraviroc
- C) Raltegravir
- D) Atazanavir

Unit of  $k_M$  value in Michelis Menten equation is:

- A)  $S^{-1}$
- B) mol/L
- C)  $(\text{mol/L})^{-1}S^{-1}$
- D) mol/S

Which of the following plastic is transparent and flexible?

- A) Silicon rubber
- B) PVP
- C) HDPE
- D) PE

In which method an order of a fixed number of items is placed every time an inventory level falls to a predetermined point?

- A) A-B-C method
- B) Maximum and minimum method
- C) Open-to-buy method
- D) Economic order quantity

Choose the option with two reducing sugars.

- A) Lactose and Maltose
- B) Trehalose and Sucrose
- C) Maltose and Trehalose
- D) Lactose and Sucrose

The local anaesthetic with highest cardiotoxicity is:

- A) Lignocaine
- B) Bupivacaine
- C) Levo-bupivacaine
- D) Procaine

In supercritical fluid chromatography, if using packed columns, the most common stationary phase is:

- A) a methyl-type stationary phase bonded to silica (like DB-1) for GC
- B) an aromatic-type stationary phase bonded to silica
- C) an octyldecyl (C18) stationary phase bonded to silica
- D) uncoated silica

Tranexamic acid is:

- A) Antithrombotic
- B) Antifibrinolytic
- C) Fibrinolytic
- D) Styptic

Which of the antihistaminic compound has antiandrogenic effect?

- A) Famotidine
- B) Ranitidine
- C) Nizatidine
- D) Cimetidine

Which of the following drug is used preferentially as preanesthetic medication?

- A) Midazolam
- B) Oxazepam
- C) Alprazolam
- D) Nitrazepam

Proton Pump inhibitors are most effective when given:

- A) half hour before meals
- B) with meals
- C) after prolonged fasting
- D) along with  $H_2$  blockers

2 Match compounds in Group I with inhibitory activities in Group II.

**Group I**

- P) Vancomycin
- Q) Rifampin
- R) Puromycin
- S) Ciprofloxacin

**Group II**

- 1) Folate metabolism
  - 2) DNA synthesis
  - 3) Protein synthesis
  - 4) RNA synthesis
  - 5) Cell wall synthesis
- A) P-5, Q-4, R-3, S-2  
B) P-4, Q-3, R-1, S-2  
C) P-4, Q-1, R-3, S-2  
D) P-5, Q-3, R-2, S-4

3 Formation of Okazaki fragments occurs in:

- A) Transcription      B) Replication      C) Translation      D) Reverse transcription

4 Drug used in ventricular arrhythmia is:

- A) Flecainide      B) Verapamil      C) Esmolol      D) Diltazem

5 The lipoprotein with the fastest electrophoretic mobility and the lowest TG content is:

- A) VLDL      B) HDL      C) LDL      D) Chylomicrons

6 As per schedule 'Y' of the drugs and cosmetics act, the animal toxicity study requirement for marketing of a drug depends upon tentative route and duration of administration in humans. In this context, which one of the following statements is incorrect?

- A) Single dose human use – animal toxicity for 2 weeks in 2 species  
B) Oral use for 2 weeks in humans – animal toxicity for 4 weeks in 2 species  
C) Aerosol use by repeated use in humans – animal toxicity for 24 weeks in 2 species  
D) Multiple daily ocular application for short duration – irrigation test in 1 species for 3 weeks

For determining the efficacy of sterilization in an autoclave, the spores of the following organism are used as test organisms

- A) *Bacillus cereus*      B) *Clostridium perfringens*  
C) *Bacillus stearothermophilus*      D) *Clostridium histolyticum*

Which of the following pairs is mismatched?

- A) Aerobic, helical bacteria - gram-negative      B) Enterics - gram-negative  
C) Mycobacteria - acid-fast      D) Pseudomonas - gram-positive

In trans-1,2-dimethyl cyclohexane, what is the orientation of the methyl groups?

- A) Both axial      B) Both equatorial  
C) One axial one equatorial      D) Depends on chair or boat conformation

Sigma minus method is used in assessment of :

- A) bioavailability      B) absorption      C) metabolism      D) tissue distribution

Which of the plant family contains volatile oil in their trichome?

- A) Rutaceae      B) Papaveraceae      C) Umbelliferare      D) Laminaceae

What is the proportion of citric acid: tartaric acid : sodium bicarbonate in effervescent powder?

- A) 1: 2: 3.4                      B) 2: 1: 3.4                      C) 1:2:4                      D) 1: 2: 4.4

Which oil is soluble in alcohol?

- A) Arachis oil                      B) Sesame oil                      C) Castor oil                      D) Corn oil

One of the first steps of the citric acid cycle is isomerization of citric acid to isocitric acid.

This step is necessary because:

- A) Oxidation of secondary alcohols is very difficult  
B) Reduction of secondary alcohols is very impossible  
C) Reduction of tertiary alcohols would require a very powerful oxidizing agent  
D) Oxidation of tertiary alcohols would require oxidizing agents.

Which of the following alkyl halides would undergo  $S_N2$  reaction most rapidly?

- A)  $CH_3CH_2-Br$                       B)  $CH_3CH_2-Cl$                       C)  $CH_3CH_2-I$                       D)  $CH_3CH_2-F$

A single dose four-way crossover, fasting, comparative bioavailability study was performed in 24 healthy, adult male subjects. Plasma drug concentrations were obtained for each subject and following results were obtained:

Product	Dose(mg)	$C_{max}(\mu g/ml)$	$T_{max}(h)$	$AUC_{0 \rightarrow \infty}(\mu gh/ml)$
IV injection	100	-	-	1714
Oral emulsion	200	21.3	1.2	3143
Capsule	200	17.0	2.1	2822
Reference tablet	200	16.5	1.9	2844

The relative bioavailability of the drug from the capsule compared to the reference tablet is

- A) 82.33%                      B) 91.68%                      C) 96.22%                      D) 99.22%

All are adrenal gland overactivity disorders EXCEPT

- A) Addison's disease                      B) Conn's syndrome                      C) Cushing's syndrome                      D) Cushing's disease

The oil used in a parenteral product cannot contain \_\_\_\_\_.

- A) WFI                      B) Paraffin oil                      C) Peanut oil                      D) Glycerine

Identify the non-absorbable suture.

- A) Catgut                      B) Chromic catgut  
C) Silk                      D) Polydioxanone

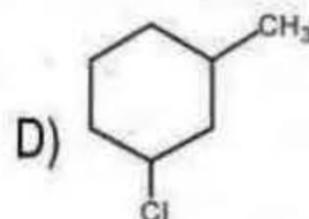
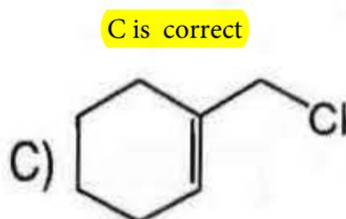
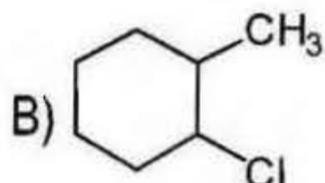
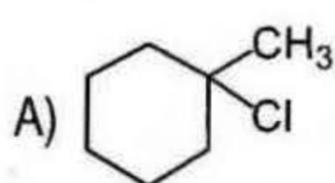
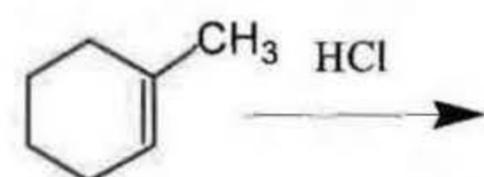
The relative lowering of vapour pressure is given by

- A) Raoult's law                      B) Henry's law                      C) Boyle's law                      D) Charles law

Identify the functional group present in meprobamate.

- A) amide                      B) ester                      C) carbamic ester                      D) lactam

What will be the primary product of the following reaction?



The mass spectrum of a compound with an approximate MW 137 shows two equally intense peaks at  $m/z$  136 and 138. What does this suggest?

- A) The compound is alkyl iodide  
B) The compound is alkyl bromide  
C) The compound is alkyl chloride  
D) The compound is aryl fluoride

According to DPCO, what will be the profit percentage that can be gained by retailer?

- A) 10  
B) 12  
C) 14  
D) 16

As per Schedule M, what is the minimum area required for capsule manufacturing in the manufacturing premises?

- A) 150 m<sup>2</sup>  
B) 60 m<sup>2</sup>  
C) 30 m<sup>2</sup>  
D) 25 m<sup>2</sup>

Drug of choice to treat H1N1 influenza is:

- A) Adefovir  
B) Cidofovir  
C) Oseltamivir  
D) Tenofovir

Identify the correct statement:

- P) Condensed tannins are polymers flavans.  
Q) Condensed tannins do not contain sugar residues.  
R) Hydrolyzable tannins are polymers of gallic acid or ellagic acids  
S) Gallic acid and catechin are pseudotannins.

- A) Only Q  
B) P and Q  
C) P, Q and R  
D) P, Q, R and S

Which of the following pairs does not correctly match in the element and its oxidation number?

- A) Oxygen in H<sub>2</sub>O<sub>2</sub>; -2  
B) Bromine in Br<sub>2</sub>; 0  
C) Sodium in NaCl; +1  
D) Sulfur in SO<sub>3</sub><sup>-2</sup>; +4

In the Reimer-Tiemann reaction \_\_\_\_\_ reacts with phenol to give the ortho-formylated product.

- A) carbene  
B) carbocation  
C) carbanion  
D) free radical

Which of the following is not added to chewing tablet?

- A) Glidant  
B) Disintegrant  
C) Lubricant  
D) Antiadhesive

Range of C=O stretching in enol is :

- A) 1800 cm<sup>-1</sup>  
B) 1710 cm<sup>-1</sup>  
C) 1685 cm<sup>-1</sup>  
D) 1655 cm<sup>-1</sup>

Match the following phytochemicals with their source and use

- |                   |   |
|-------------------|---|
| P. Shatavarin     | 1. Buckwheat and citrus fruits, strengthens capillary walls |
| Q. Resveratrol    | 2. Broccoli and cabbage, protects against bladder cancer    |
| R. Glucosinolates | 3. Purple grape juice, anti-inflammatory, anticancer        |
| S. Rutin          | 4. Asparagus, galactagogue                                  |
- A) P-4, Q-3, R-2, S-1    B) P-4, Q-2, R-3, S-1    C) P-3, Q-2, R-4, S-1    D) P-2, Q-3, R-4, S-1

Which RNA polymerase is the only one whose products are capped?

- A) RNA polymerase I    B) RNA polymerase II    C) RNAPolymerase III    D) RNA primase

Match the scientist awarded with Nobel prize with their contributions

- |                      |                     |
|----------------------|---------------------|
| P. Alexander Fleming | 1. GPCR             |
| Q. Kobilka           | 2. $\beta$ -blocker |
| R. Banting           | 3. Penicillin       |
| S. Black             | 4. Insulin          |
- A) P-4, Q-3, R-2, S-1    B) P-4, Q-2, R-3, S-1    C) P-3, Q-1, R-4, S-2    D) P-2, Q-3, R-4, S-1

Mean arterial pressure is

- A) Systolic Pressure - Diastolic Pressure    B) (diastolic pressure + diastolic pressure) / 2  
 C) diastolic pressure + (1/3)  $\times$  pulse pressure    D) Stroke volume X heart rate

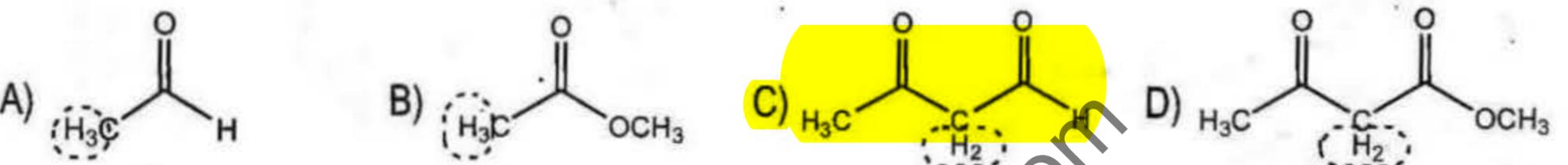
Eugenol is :

- A) monoterpene alcohol    B) Sesquiterpene alcohol  
 C) Aliphatic alcohol    D) Phenylpropene

The vitamin required for carboxylation of pyruvate to form oxaloacetate is:

- A) Thiamine    B) Biotin    C) Pyridoxine    D) Niacin

Which of the following circled hydrogen is most acidic?



The drug formulated as suspension follows — order reaction.

- A) Zero    B) Pseudo zero    C) First    D) Pseudo first

Which diuretic causes decrease in release of insulin?

- A) Chlorothiazide    B) Ethacrynic acid    C) Triamterene    D) Acetazolamide

Match the following drugs with their mode of action

- |                     |                        |
|---------------------|------------------------|
| P. Methotrexate     | 1. Mitotic inhibitor   |
| Q. Cyclophosphamide | 2. Antimetabolite      |
| R. Vincristine      | 3. Alkylating agent    |
| S. Dactinomycin     | 4. Intercalating agent |
- A) P-4, Q-3, R-2, S-1    B) P-2, Q-4, R-1, S-3    C) P-3, Q-1, R-4, S-2    D) P-2, Q-3, R-1, S-4

Which compound would be expected to show intense IR absorption at  $3300\text{ cm}^{-1}$ ?

- A)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$     B)  $\text{CH}_3\text{CH}_2\text{C}\equiv\text{CH}$     C)  $\text{CH}_3\text{C}\equiv\text{CCH}_3$     D)  $\text{CH}_2=\text{CHCH}_2\text{CH}_3$

In the carbon NMR, in what region of the spectrum does one typically observe carbons which are part of the aromatic ring?

- A) -10-0 ppm    B) 40-60 ppm    C) 80-100 ppm    D) 120-150 ppm

Meclofenamate belongs to which class of drug?

- A) Salicylates    B) Oxicams    C) Aryl anthranilic acid    D) p-Amino phenols

Match the following crude drugs with their chemical constituents

- |               |                |
|---------------|----------------|
| P. Aloe       | 1. Hesperidine |
| Q. Ginger     | 2. Palmitin    |
| R. Lemon peel | 3. Barbaloin   |
| S. Olive oil  | 4. Allin       |
- A) P-4, Q-3, R-2, S-1    B) P-3, Q-4, R-2, S-1    C) P-3, Q-4, R-1, S-2    D) P-3, Q-1, R-1, S-4

Dopamine agonists with tetralene function:

- A) Ropinirole    B) Pirebidil    C) Pramipixole    D) Rotigotine

The enzyme is EC 3.2.1.1. What is this enzyme?

- A)  $\alpha$ -amylase    B) alanine racemase    C) pyruvate dehydrogenase    D) DNA ligase

A powerful inhibitor of stomatal opening is:

- A) Auxin    B) Cytokinin    C) Gibberelin    D) Abscisic acid

What is the renal clearance of a substance, if its concentration in plasma is 10 mg, concentration in urine is 100 mg and urine flow is 2 ml/min :

- A) 0.02 ml/min    B) 0.2 ml/min    C) 2 ml/min    D) 20 ml/min

Aim of pharmacovigilance is:

- A) To monitor drug toxicity    B) To monitor unauthorized drug manufacture  
C) To monitor rational use of drugs    D) To check and control drug costs

Phase zero studies is a/an:

- P) Exploratory investigational new drug study    Q) Human microdosing studies  
R) Step to speed up drug discovery/development process    S) Mandatory by FDA
- A) P and Q    B) Q and R    C) P, Q and R    D) P, Q, R and S

Corey-Bakshi-Shibata reagent is:

- A) pyridinium salt of dichromate    B) mixture of anisole with phosphorus pentasulfide  
C)  $\text{R}_2\text{CuLi}$     D) chiral catalyst derived from proline

Condensation of aldehyde (or ketones) with  $\alpha$ -halo ester in presence of zinc metal to give  $\beta$ -hydroxy-ester is:

- A) Reformatsky reaction    B) Dieckmann condensation  
C) Claisen condensation    D) Aldol condensation

Match the following

P. Gypsum salt

Q. Epsom salt

R. Alum

S. Green vitriol

A) P-1, Q-2, R-4, S-3

C) P-4, Q-3, R-1, S-2

1.  $KAl(SO_4)_2 \cdot 12H_2O$

2.  $FeSO_4 \cdot 7H_2O$

3.  $CaSO_4 \cdot 2H_2O$

4.  $MgSO_4 \cdot 7H_2O$

B) P-3, Q-4, R-1, S-2

D) P-2, Q-4, R-1, S-3

Tinea capitis is ringworm infection of:

A) feet

B) groin

C) head

D) nails

Rank the following compounds in order of increasing reactivity in electrophilic aromatic substitution reactions.

P)  $C_6H_6$

Q)  $C_6H_5CH_3$

R)  $C_6H_5NO_2$

A)  $Q < P < R$

B)  $R < P < Q$

C)  $Q < R < P$

D)  $P < Q < R$

The most common waveform associated with EEG in epilepsy are \_\_\_\_\_ waves.

P) Spike

Q) Sharp waves

R) Nonspecific waves

S) Theta waves

A) P and R

B) P and Q

C) Q and R

D) P, Q, R and S

The set representing correct order of first ionization potential is:

A)  $K > Na > Li$

B)  $Be > Mg > Ca$

C)  $B > C > N$

D)  $Ge > Si > C$

Among the electrolytes  $Na_2SO_4$ ,  $CaCl_2$ ,  $Al_2(SO_4)_3$  and  $NH_4Cl$ , the most effective coagulating agent for  $Sb_2S_3$  sol is:

A)  $Na_2SO_4$

B)  $CaCl_2$

C)  $Al_2(SO_4)_3$

D)  $NH_4Cl$

Arrange the given acids in increasing order as per the number of carbons present in them:

P) Capric

Q) Caprylic

R) Caproic

S) Lauric

A)  $P < Q < R < S$

B)  $R < Q < P < S$

C)  $R < Q < P < S$

D)  $Q < P < R < S$

MBO is most closely associated with which theory of work motivation?

A) equity theory

B) expectancy theory

C) Maslow's need theory

D) goal setting theory

What are the three basic steps of conventional PCR?

A) Denature, anneal, & strand displacement

B) Denature, anneal & extension

C) Strand displacement, synthesis & release

D) Reverse-transcription, anneal & extend

Rabies bodies are:

A) Negri bodies

B) Cowdry type B inclusion bodies

C) Cowdry type A inclusion bodies

D) Bollinge bodies

When glucose reacts with bromine water, the main product is:

A) Glucaric acid

B) Glucuronic acid

C) Sorbitols

D) Gluconic acid

Increase in melting temperature of DNA is due to high content of:

A) A + T

B) G + C

C) A + G

D) T + G