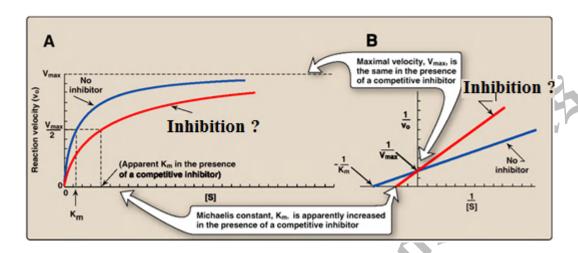
Q-1. This type of inhibition (In Red line) will called.....



- (A) Noncomptitative (B) Comptitative
- (C) un Comptitative
- (D)Mixed inhibition
- Q-2. Which of the following ions may be effectively chelated by EDTA?
- I. sodium II. lithium III. lead
- (A) I only (B) III only
- (C) I and II only
- (D) II and III only
- Q-3. The term "impalpable" refers to a substance that is
- (A) Bad tasting (B) not perceptible to the touch (C) greasy (D) none
- Q-4 Techniques used in the development of "biotechnological drugs" include
- I. gene splicing
- II. preparation of monoclonal antibodies
- III. lyophilization
- (A) I only (B) III only (C) I and II only (D) II and III only
- Q-5. Uses for surfactants in pharmaceutical products include
- I. percutaneous absorption enhancers

II. cleansing agents
III. therapeutic activity
(A) I only (B) III only (C) I and II only (D) I, II, and III
Q-6 High pressure and airless system to spray having pressure range
(A) 250-1000 Pisg (B)400-2000 Pisg (C)400-3000 Pisg (D)250-3000 Pisg
Q-7 Poorly manufactured tablets may have small pinholes on the surface. This phenomenon is
known as:
(A) Picking (B) Mottling (C) Leaching (D) Cracking
Q-8 Creaming is a Process
(A) Irreversible (B) reversible (C) Difficult (D) Both a &c
Q-9 Hydrolysis of ethyl acetate in acid base medium followed the order of reaction
(A) I & II Order (B) Pseudo first & II Order (C) II & I Order (D) zero and first
Q-10 The rate of hydrolysis can be controlled by
(A) adding buffers (B) complexation (C) Removal of water (D) decreasing the solubility
Q 11 Porosity of a porous powder is defined as
(A) Bulk volume/void volume (B) void volume / Bulk volume
(C) void volume / true volume (D) true volume / Bulk volume
Q-12 The HLB range of emulsifier used in the preparation of water in oil emulsion is
(A) 4 to 6 (B) 7 to 12 (C) 13 to 15 (D) 16
Q-13. Mannitol may be included in lyophilized products as a
(A) buffer (B) bulking agent (C) preservative (D) sweetener
Q-14 Intrusion fluid found in Pychometer is
(A) Acetone (B) Mercury (C) Isopropyl alcohol (D) Ethyl alcohol

Q-15 when cumulative percent frequency on a probability scale is plotted scale against logarithm of the particle size, 50 % on the probability scale gives the powder particle diameter of

- (A) arithmetic mean
- (B) arithmetic mode
- (C) geometric mean
- (D) harmonic mean

Q-16 The excise –officer of bonded laboratory may permit to take a sample from each batch to finished preparation free of duty up to a maximum amount of

- (A)250 ml
- (B) 150 ml (C) 100 ml
- (D) 50 ml

Q-17 Every year the register of state pharmacy council is required to print the registers

- (A) 1st January
- (B) 1st may
- (C) 1st april
- (D) 1st march

Q18- Volatile oil can be distinguished from fixed oil as they give

- (A) grease spot test negative
- (B) give foam test positive
- (C) they can easily freezed
- (D) all

Q- 19 Yellow colour of gentian lutea rhizome is due to

- (A) gentisin
- (B) amarogentin
- (C) gentiopicrin
- (D) amarogentin

Q-20. Histamine H1 receptor blockers are useful in the treatment of aliment of the following EXCEPT:

(A) urticaria. (B) seasonal rhinitis. (C) drug reactions. (D) bronchial asthma.

Q.21 one of the following drug is used as prophylactic treatment for migraine

- (A) sumatriptan (B) a
- (B) alnitidan (C) propranolol
- (D) ergotamine

Q.22 which of the following statement is not true

- (A) Flunarizine is calcium channel blocker which is use as a prophylaxis treatment of migraine
- (B) PGI₂ having platelet aggregatory property
- (C) Azapirones are partial agonist of 5HT1A receptor
- (D) PG's promote mucus & HCO⁻³ secretion in GIT

Q-23 Which of the following is not corresct

$$(A)pH = pKa + log [HA]/[A^-]$$

(B)
$$pH = pKa - log [A^-]/[HA]$$

- (C) Both a &b
- (D) None

Q-24 vitamin- D function by which receptor

- (A) GPCR (B) enzyme linked (C) intrinsic ion channel (D) nuclear receptor
- Q –25 ACE inhibitor produce which type of teratogenic reaction
 - (A) foetal goiter
 - (B) spina bifida
 - (C) virilization
 - (D) hypoplasia of organ

Q-26 . A drug that decreases the formation of uric acid is

(A) miglitol	(B) allopurinol	(C) probenecid	(D) propylthiouracil
Q-27 . Drugs	employed in reducing	elevated serum cholest	erol include(s)
i	gemfibrozil		
I.	cerivastatin		2
III.	pioglitazone		
(A) I only	(B) III only	(C) I and II only	(D) I, II, and III
Q-28 . Which	of the following beta-	adrenergic blocking ag	ents also exhibit alpha1-adrenergic
blocking action	on?		
I. timo	olol		
II. sota	alol	1	
III. lal	petalol		
(A) I only	(B) III only (C) I a	and II only (D) II	and III only
O-29 . Didana	osine can best be descri	ibed as a(an)	
Q 29 . Diami	some can occi be descri	arood as a (an)	
(A) antiproto	zoal	(B) reverse tr	ranscriptase inhibitor
(C) protease i	nhibitor	(D) beta-lacta	mase inhibitor
Q-30 The "fir	st-dose" effect is chara	cterized by marked hy	potension and syncope on taking the
first few dose	s of medication. This e	effect is seen with the u	ase of
1. dox	azosin II. enala	pril III. sotal	lol
(A) I only	(B) III only	(C) I and II only	(D) I, II, and III only
Q-31 Daltepa	rin sodium acts in the b	oody to	
(A) regulate r	nenstrual activity (F	B) prevent blood clot for	ormation
(C) inhibit thy	yroid function (D) inhibit viral replica	tion
Q-32 . Cromo	olyn sodium is a drug th	nat is	

(A) effective in acu	ite asthmatic attacks	(B) a synthetic corti	costeroid
(C) a histamine antagonist		(D) a mast cell stabilizer	
Q-33. Which of the treatment of cardia	_	annel blockers may	be employed parenterally in the
I. verapami	II. isradipine	III. amlodipine	
(A) I only (B)) III only (C)	I and II only	(D) II and III only
Q-35. Which one	of the following is NO	T a progestin?	
(A) norethynodrel	(B) norethindrone	(C) mestranol (I	O) levonorgestrel
Q-36 . Potassium d	lepletion is LEAST lik	ely to occur in a pati	ent using
(A) ethacrynic acid	d (B) triamterene	(C) torsemide	(D) acetazolamide
Q-37. Which one o	of the following barbitu	rates is likely to be	the shortest acting?
(A) amobarbital so	dium	(B) methohexital	sodium
(C) pentobarbital se	odium	(D) mephobarbit	al
Q38. The primary	function of simethicon	e in antacid products	s is to act as a (an)
(A) suspending ag	ent (B) adsorbe	ent (C) buffe	r (D) antiflatulent
Q 39. The antipark	inson effect of levodop	oa may be inhibited l	ру
(A) niacinamide (B) d-alpha tocopherol	(C) pyridoxine HC	l (D) dihydrotachysterol
Q-40. The child's dose for a child we	0 1	ed as 1.2 mg/kg body	y weight. What is the appropriate
(A) 6 mg	(B) 9 mg	(C) 32 mg	(D) 72 mg

Q-41. Calcium chloride (CaCl2 • 2H20) has a formula weight of 147. What weight of the chemical is needed to obtain 40 mEq of calcium?

(Ca =40.1; Cl =35.5; H20 =18)

- (A) 0.80 g
- (B) 2.22 g
- (C) 1.47 g (D) 2.94 g

Q-42. The concentration of mercury in a water sample is reported as 5 ppm. Express this concentration as a percentage.

- (A) 0.00005% (B) 0.0005% (C) 0.005% (D) 0.05%

Q-43 Structure will have highest muscarinic agonistic activity.

(A) (B)

(d)

(c)

Q-44 Which one is the correct structure of simvastatin (HMG CoA inhibitor)

OH OH
$$CO_2^-Na^+$$
OH OH $CO_2^-Na^+$
OH OH $CO_2^-Na^+$
OH OH OH CO_2^-
OH OH OH CO_2^-
OH OH OH CO_2^-
OH OH OH CO_2^-

Q-45 Stereochemistry of penicillins is

- (A) 2S, 5R, 6R
- (B) 2R, 5S, 6R
- (C) 2R, 5S, 6S
- (D)2S, 5S, 6R

Q-46 - Which one of the following chemicals is NOT suitable as a drug excipient?

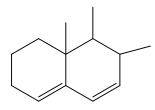
- (A) methyl paraben
- (B) starch
- (C) glycerin
- (D) benzocaine

Q 47-A patient with sever viral hepatitis, will have increased plasma level of which of the following:

- (A) Ck2
- (B) LDH_1
- (C) hexokinase
- (D) alanine transaminase

Q-48 Relation between δ value (1H NMR) for Axial (A) and Equatorial (E) Hydrogen of Rigid Six membered ring cyclohexane will be.

- (A) $\delta_A = \delta_E$
- (B) $\delta_{A} < \delta_{E}$ (C) $\delta_{A} > \delta_{E}$
- (D) None of these
- Q-49 As per Woodvard Fisher rule base value for this conjugated diene will be



- (A) 214
- (B) 217
- (C) 253
- Q-50 In gas chromatography which detector is most sensitive to halogenated compounds like pesticides
- (A) TCD
- (B) FID
- (C) ECD
- Q-51 In oxidation- reduction titrations one mole of potassium dichromate is equivalent to Fe of
- (A) 2 moles
- (B) 4 moles
- (C) 6 moles
- (D) 1 mole
- Q-52 The source of light in I.P. spectroscopy
 - (A) Hydrogen lamp (B) deuterium lamp (C) silicon carbide rod (D) both A & B

- Q- 53 The value of stretching frequency of a bond can be calculated by
- (A) Hooke's law (B) stroke's low (C) lambert beer's law (D) none
- Q-54 a compound is gives red colour in solution from. Its λ_{max} is in the region of
 - (A)400-450mµ (B)620-760mµ (C)520-570mµ (D)570-590mµ

- Q-55 The stationary phase silica gel G is having the composition of for preparing the TLC
- (A) silica gel + calcium sulphate
- (B) silica gel + binder + fluorescent indicator
- (C) silica gel + aluminum hydroxide
- (D) cellulose with binder

Q-56 which of the following statement is not correct regarding alkaloids
(A) they are generally basic in nature
(B) Always havenitrogen in hetrocyclic ring
(C) distributed mostly in higher plants
(D) none.
Q-57 Phytolacca Americana a substituent for belladonna is identified by
(A) preseance of idioblasts
(B) anisocytic stomata
(C) microshenoidal calcium oxalate crystals
(D) cluster crystals
Q-58 Bixin is synthesized from (A) governial
(A) geraniol
(B) geranyl pyrophosphate
(C) geranyl geraniol
(D) farnesol
Q-59 Which of the following is preferred method for estimation of sesquiterpinoidal
compounds
(A) HPLC (B) HPTLC (C) TLC (D) GC-MS
Q. 60 which one of the following is hydrophobic amino acids
(A) Valine (B) leucine (C) isoleucine. (D) none
Q.61 What is the correct region behind sickle cell anemia defect in HbS?
(A) Normally the 6th amino acid in the beta chain is glutamic acid, this is replaced by valine in
the HbS molecule.
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(B) Normally the 9th amino acid in the beta chain is glutamic acid, this is replaced by valine in the HbS molecule.
(C) Normally the 6th amino acid in the beta chain is glutamic acid, this is replaced by leucine in the HbS molecule.
(D) Normally the 6th amino acid in the beta chain is glutamic acid, this is replaced by isoleucine in the HbS molecule.
Q-62 (-) Hyoscyamine is
(A) 15-20 times more active as a mydriatic than (+) Hyoscyamine
(B) inactive as a mydriatic
(C) 3-5 times less active as a mydriatic than (+) Hyoscyamine
(D) 100 times more active as a mydriatic than (+) Hyoscyamine
Q- 63 The number of peaks given by the ¹ HNMR spectrum of 2-methyl-1-pentene is
(A) 5 (B) 4 (C) 3 D. 6
Q-64 In HPLC, the analytical performance improves when
(A) Particle diameter is increased (B) Particle diameter is decreased
(C) Coarser particles are paired with small column (D) Low temperature is used
Q-65 M= $(m_2)^2/m_1$ here m_2 is daughter ion & m_1 is parent ion or molecular ion then M is
(A) Fragment ion (B) Metastable ion (C) Molecular Ion (D) Rearrangement ion
Q-66 In per gram of powdered Lycopodium number of spores will be
(A) 94,000 (B) 94,000,000 (C) 94,000 (D) 94,000,000
Q-67 Halphen's test is for the identification of

- (A) Sesame oil
- (B) Argemone oil
- (C) Cotton seed oil
- (D) Olive oil

Q-68 Microscopic characters of anticancer rhizome or roots of *Podophyllum peltatum*, Family *Berberidaceae* are

- (A) In the rhizome eccentric pith is situated towards the upper surface & the vascular bundles are curved. The root exhibit a thick cork and central wood.
- (B) Exhibit a varying number of concentric rings of fibrous vascular strands in which the phloem is towards the outer side and xylem is on the inner side.
- (C) Cylindrical or sub cylindrical, flattened dorsiventrally. Shows a broken circle of vascular tissue with a distinct phloem.
- (D) An erect, short, conical rhizome which may be longitudinally sliced, Shows a well-marked, dark cambium line.