

GPAT - 2017

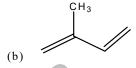
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QUESTIONS PAPER

- 1. In a free radical reaction, free radicals are formed at
 - (a) Initiation step

- (b) Propagation step
- (c) Termination step
- (d) Both (a) and (b)
- 2. Which of the following dienes can undergo Diels-Alder reaction most readily









- 3. Separating techniques such as gas chromatography and liquid chromatography are not appropriate for separation of amino acids. Select correct reason from the following
 - (a) Amino acids high polarity substances DISCUSSION
 - (b) Amino acids are low polarity substances E N T E R
 - (c) Amino acids are non polar substances
 - (d) Amino acids lowly charges substances
- 4. When trans-2-butene is treated with bromine an anti-addition of bromine yields meso- 2,3- dibromobutane. Select the correct statement regarding the reaction from the following
 - (a) The reaction is stereoselective as well as stereo specific
 - (b) The reaction is stereoselective and not stereo specific
 - (c) The reaction is nonstereoselective as well as non stereo specific
 - (d) The reaction is stereo specific and not stereo selection
- 5. Reduction of imines to give amines in protic solvents can be carried out by one of the following reagents. Select the correct reagent
 - (a) Sodium hydride
 - (b) Sodium chloride and HCl
 - (c) Lithium aluminium chloride
 - (d) Sodium cyanoborohydride

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In the reaction of 2-nitrotoluene with bromine in presence of iron, which of the product shownbelow is the most abundant (major) product

(d)
$$CH_3$$
 N O

Which of the following cannot react as a nucleophile

(a) $(CH_{2})_{4}N^{+}$

(b) CH,NH.

(c) $(CH_3)_2NH$

(d) $(CH_2)_2N$

Which of the following compounds will be oxidized by Cro. in acid

(a)4-Methylcyclohexene

- (b) 3-Methyl 3-hydroxyclohexanone
- (c) 4,4-Dimethyl-1-methyl-1,3-cyclohexandiol
- (d) 2-Methylcyclohexanone

Which of the following compounds absorbs at the longest wavelength

(a) 1,3,5-Hexatriene

- (b) 1,3,5,7-Octatetraene
- (c) 1,7-Diphenyl-1,3,5-heptatriene
- (d) 1,6-Diphenyl-1,3,5-heptatriene

10. Which of the following reagents will reduce a disubstituted alkyne to trans-alkene

(a) Na and NH₃

(b) LiAlH₄

(c) B_2H_6

(d) Pd and H₂

Which of the following statement is true about following reaction

$$H_3CO$$
 $OH-, S_2N$

- (a) The product will not have a stereo center
- (b) The product will have R configuration
- (c) The product will not have S configuration
- (d) The reaction will happen with racemisation

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12. Which functional group is present in the molecule shown below



(a) Amide

- (b) Alcohol
- (c) Ester
- (d) Ether

13. Match the following agents that cause cancer with the preferable sites for where it might cause

- 1. Arsenic
- 2. Benzene
- 3. Cadmium Compounds
- 4. Vinyl chloride
- (a) 1 d; 2 c; 3 a; 4 -b
- (c) 1 c; 2 d; 3 b; 4 a

- (a) Prostate
- (b) Angiosarcoma
- (c) Leukemia
- (d) Hemangiosarcoma
- (b) 1 b: 2 a: 3 c: 4- d
- (d) 1 a; 2 b; 3 -d; 4 c

14. If the pKa of lidocaine is 7.9 and pH of the infected tissue is 8.9, the fraction of drug in the ionized form will be

(a) 10%

- (b) 1%
- (d) 99%

15. Which among the following are the salient features of Glucocorticoids

- (a) Gets combined with highly specific cytosolic glucocorticoids
- (b) They promote phagocytosis by macrophages
- (c) Releases of lytic enzymes
- (d) Increases lipid eicosanoids and prostaglandin gene

16. The most commonly used test of sensitivity to antimicrobial agent is

(a) Kirby-Bauer techniques

(b) Immunodiffusion techniques

(c) Qudin procedure

(d) Ouchter- Ion procedure

17. Bulk product is defined as

- (a) Product completing all processing stages but not necessarily final packing
- (b) A product ready for final dispatch
- (c) Raw material used for making final dosage form
- (d) A defined quantity of raw material from the same batch

18. Product,.....and Promotion are four 'P's of marketing

(a) Price and Place

(b) Place

(c) Process

(d) Production, Process, Price, Production



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- 19. Insulin and thyroxin arrive at an organ / tissue / cell at the same time. Thyroxine causes an effect on the organ but insulin does not because
 - (a) The organ cell have receptors for thyroxine but not for insulin
 - (b) Thyroxin is a lipid -soluble hormone and insulin
 - (c) The target cell in the organ have up-regulated for
 - (d) Thyroxin is local hormone and insulin is a circula
- 20. Which among the following is an incorrect statement with regard to the drug Dantrolene
 - (a) It is a pyrazoline derivative

- (b) It is an imidazoline analogue
- (c)It is a nitrophenylfurfurylidene derivative
- (d)It is a skeletal muscle relaxant
- 21. Diazepam is not suitable for peroral sustained release form since
 - (a) Is not absorbed in lower intestine
 - (b) It has biological half life greater than twelve effects hour
 - (c) It has biological half life less than one hour
 - (d) It has undesirable side effects
- 22. Antioxidant used as blocking agent in sterile product is
 - (a) Ascorbic acid esters

(b) Sodium bisulphate

(c) Ascorbic acid

- T(d) EDTASSION
- 23. Many mediators have been implicated in the asthmatic response. The clinical efficacyof pharmacologic intervention with inhibitors or antagonist of the mediators involves following category - except
 - (a) Platelet activating factors
- (b) Anticholinergics

(c) Antihistaminics

- (d) Cytokine inhibitors
- 24. Match the following adrenergic drugs with their receptor affinity
 - (1) Epinephrine

(a) More alpha 1, no beta 1, beta 2 & dopamine

(2) Noradreanline

(b) More alpha 1 & beta 1, less beta 2, no dopamine

(3) Phenylephrine

(c) More beta 1 & Beta 2, no alpha 1 and dopamine

(4) Dobutamine

(d) More alpha 1 & beta 1, no beta 2 & dopamine

(a) a - 2; b - 4; c - 1; d -3

(b) a - 1: b - 3: c - 4: d- 2

(c) a - 3; b - 1; c - 2; d - 4

- (d) a 4; b 2; c -3; d 1
- 25. If the drug substance has been substituted wholly or in part by another drug or substance, it is called as
- (a) Spurious drug (b) Adulterated drug (c) Misbranded drug
- (d) Mixed drug
- 26. One of the principle upon which HPLC detector functions is
 - (a) Redox property of solute is the basis for functioning of Electrochemical detectors
 - (b) Fluorimetric detector has high selectivity and low sensitivity



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- (c) Small difference in Refractive Index of mobile phase permit precise measurements in Refractive index detectors
- (d) UV detector function based on its ability to detector
- 27. Methanolic extract of a crude drug powder when treated with magensium turnings and concentrated hydrochloric acid turned the solution magenta coloured. The test is termed as
 - (a) Shinodatest
- (b) Van Urk's Test
- (c) Keller Killiani test
- (d) Vitali Morin Test
- 28. Etoposide and Teniposide are the semisynthetic derivatives of
 - (a) Myrrhabolic acid
- (b) Podophyllotoxin
- (c) Abietic acid
- (d) Umbelliferone
- 29. The thymus secretes several hormones related to the immunity. These hormones promote the maturation of T lymphocyte cells. These hormones are
 - 1. Thymosin
 - 2. Thymichumoral factor
 - 3. Thymic factor
 - 4. Interleukins
 - (a) Only 1, 2
- (b) 1, 2 and 3

(c) Sonly 3 S [(d) Only 4

- 30. For the measurement of particle size of powders, the distance measured between two tangents on opposite sides of the particle parallel to some fixed direction is called
 - (a) Feret diameter
- (b) Martin diameter
- (c) Projected area diameter
- (d) Edmundson diameter
- 31. Beta oxidation of fatty acids takes place in
 - (a) Mitochondria

(b) Cytoplasm

(c) Nucleus

- (d) Choroplast
- 32. Which of the following genera is not the source for tropane alkaloids
 - (a) Datura

(b) Duboisia

(c) Nicotiana

- (d) Atropa
- 33. The useful variable from in vitro dissolution test data for IVIVC includes
 - (a) t50 % t63.2

- (b) Sampling interval
- (c) Sample volume
- (d) Volume of dissolution fluid
- 34. In respect of female reproductive cycle, which of the following statements are correct
 - 1. The female reproductive cycle consists of menstrual phase, a pre-ovulatory phase, ovulation and a post ovulatory phase

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2. During the menstrual phase, small secondary follicles in the ovary begin to enlargewhile the uterus is shedding its lining

3. During the pre-ovulatory phase, a dominant follicle continues to grow and begins to secret estrogen and inhibin while the uterine lining begins to rebuild

4. Ovulation results in the release of an ovum and the shedding of the uterus lining tonourish and support the release ovum

5. After ovulation, a corpus luteum forms the ruptured follicles and begins to secreteprogesterone and estrogen, which it will continue to do throughout pregnancy if the eggis fertilized

6. If pregnancy does not occur, then the corpus luteum degenerates into a scar known as corpus albicans and uterine lining is prepared to be shed again

(a) 1, 2, 3 and 6

(b) 2, 3, 4and 6

(c) 1, 2, 4 and 5

(d) 1, 4, 5 and 6

35. Apparent volume of distribution will be highest in case of the drug with % plasmaprotein binding

(a) 10

(b) 89

(c) 50

(d) 68

36. To rule out the probability of dose dumping from an oral CR dosage form, USP hasincluded which sampling time point for in vitro dissolution test where D is normal dosing interval

(a) 0.50D

(b) 0.25D

(c) 50-1.0

(d) 1.0-2.0D

37. Which of the following statement regarding cerebral hemisphere is true

(a) The right and left hemisphere are symmetrical

(b) This right more important for spoken and written language

(c) The left hemisphere is more important for musical and artistic awareness

(d) Hemispheric lateralization is more pronounced in male than in female

38. Which among the following is a Class-I method, used for rendering a solution of drug isotonic with body fluids

(a) Cryoscopic method

(b) White-Vincent method

(c) Sprowlsmethod

(d) Hammarlund method

39. (Weight in pounds/150) * Adult Dose = Child dose. The above formula is known as _____ in Posology

(a) Youngs formula

(b) Dillings formula

(c) Clarkes formula

(d) Frieds formula

40. The type of particle diameter obtained by microscopic method of evaluation is

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(a) Projected diameter

(b) Surface -volume diameter

(c) Volume - surface diameter

(d) Stokes diameter

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- (a) Is used for relief ofnasal congestion
- (b) Exhibits peripheral beta-adrenoceptor stimulant
- (c) Is a pyrazolinederivative
- (d) Chemically, is 1H Imidazole, 3,4 -dihydro- 2 -(3-naphthylmethyl) monohydrochloride
- 42. A patient receiving warfarin develops rheumatoid arthritis. Which one of the following drugs would be Contraindicated
 - (a) Ibuprofen
- (b) Tolmetin
- (c) Aurothioglucose
- (d) Aspirin
- 43. A crude drug powder was heated with ferric chloride, water and concentrated hydrochloric acid followed by extraction with chloroform. The chloroform layer was treated with ammonia, the ammonical layer turned pink. The test indicates presence of _____ phytoconstitutent
 - (a) Anthraquinone-C-glycosides
- (b) Flavanones

(c) Cardiac glycosides

- (d) Saponin glycosides
- 44. The first vaccine was discovered by
 - (a) DeBary
- (b) Paul Ehrlich
- (c) Robert Koch
- (d) Edward Jenner
- 45. Type IV dissolution apparatus as per USP is ISCUSSION
 - (a) Flow through cell
- (b) Paddle type apparatus R
- (c) Reciprocating cylinder
- (d) Paddle over dsk apparatus
- 46. Hoeppler viscometer is a type of
 - (a) Falling sphere viscometer
- (b) Capillary viscometer
- (c) Cup and Bob viscometer
- (d) Cone and plate viscometer
- 47. Following are the list of various inherited metabolic disorders that can affect functioning of liver
 - a. Primary biliary cirrhosis
 - Glycogen storage disease
 - c. Gilbert's syndrome
 - d. Haemochromatosis
 - e. Wilson's disease
 - (a) a, b, c, d
- (b) b, c, d, e
- (c) a, c, d, e
- (d) a. b. d. e
- 48. In relation to buccal and sublingual route of administration which of the following statement is incorrect
 - (a) Absorption through epithelium is not affected by partition coefficient of the Drug
 - (b) Drug absorption by these routes by pass first pass metabolism
 - (c) There is an optimum log P for sublingual absorption

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	(d) These are preferred routes for anti-anginal drug										
49.	9. Which among the following statements describing surface activity for surfactants is incorrect										
	(a) Increase in length of hydrocarbon chain decreases surface activity										
	(b) Increase in ethylene oxide chain of polyoxy ethyl alcohol Increase in surface activity										
	(c) Increase in surface activity results in decrease length of hydrocarbon chain										
	(d) Relationship between hydrocarbon chain length andhydrphobicity										
50.	Surface tension is categorized as a/an factor										
	(a) Capacity (b) Intensive (c) Extensive (d) Tolerance										
51.	Which of the following gums is obtained from endosperm										
	(a) Guar gum (b) Acacia gum (c) Tragacanth gum (d) Sterculia gum										
52.	High lightening differences among brands within the same product category is										
	(a) Product brand (b) Brand launch (c) Product differentiation (d) Branding										
53.	Hot stage microscopy is an important tool in preformulation studies for the study of										
	(a) Pseudopolymorphism (b) Paricle size measurement										
	(c) Microbial contamination (d) Compaction behaviour										
54.	In Bismuth subgallate suppositories B.R.C, when no strength of the drug is specified, B.P.C directs										
	bismuth subgallate per suppository DISCUSSION										
	(a) 300 mg (b) 200 mg (c) $100 \text{ mgT} \to \mathbb{R}$ (d) 400 mg										
55.	The Michaehis-Menten hypothesis										
	(a) Postulates the formation of an enzymesubstrate complex										
	(b) Enables us to calculate the isoelectric point of an enzyme										
	(c) States that the rate of a chemical reaction maybe independent of substrate concentration										
	(d) States that the reaction rate is proportional tosubstrate concentration										
56.	The largest gene in human is										
	(a) Dystrophin (b) Titin (c) Insulin (d) Phosphofructokinase										
57.	Which of the following techniques is not useful to detect polymorphs										
	(a) DSC (b) HPLC (c) PXRD (d) Melting point determination										
58.	Which of the following constituents is responsible for colour of shellac										
	(a) Shelloic acid (b) Laccaic acid (c) Aleurotic acid (d) All of the above										
59.	Match the following drugs with alteration they produces in structural-functional of kidney										
	(1) Aminoglycoside Anitibiotics (A) Glomerular abnormality										
	(2) ACE inhibitors (B) Tubalar epithelial cell Demage										

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(3) Methotrxate

(C) Hemodynamic Mediated kidney injury

(4) NSAIDs

- (D) Obstructure nephrophathy
- (a) 1 B; 2 -C; 3 D; 4 -A
- (b) 1 A; 2-B; 3 C; 4- D
- (c) 1 C; 2-D; 3 A; 4- B
- (d) 1 D; 2-A; 3 B; 4- C
- 60. Hixon Crowell's cube root law of dissolution states that
 - (a) There is a change in particle size and surface area during dissolution of drug
 - (b) Dissolution process is controlled by diffusion of molecules/ions
 - (c) High free energy of activation is required for solution
 - (d) Renewal of surface fluid layer around drug particle
- 61. All of the following statements regarding estrogen therapy in postmenopausal women are true EXCEPT
 - (a) It restores the loss of bone mass due to osteoporosis
 - (b) It may be useful to treat vasomotor symptoms
 - (c) Administration in a regimen including a progestin
 - (d) It is useful in the treatment of atrophic vaginities
- 62. Chapter IV of which law states that experiments on animals are avoided wherever it is possible to do so; as for example; in medical schools, hospitals, colleges and the like, if other teaching devices such as books, models, films and the like, may equally suffice. Also, that experiments on larger animals are avoided when it is possible to achieve the same results by experiments upon small laboratory animals like guinea- pigs, rabbits, frogs and rats
 - (a) The prevention of cruelty to animal act,1960
 - (b) The Pharmacy Act, 1948
 - (c) Drugs and Cosmetics Act, 1940
 - (d) Medicinal and Toilet Preparations Act, 1955
- 63. Which among the following rules about spin spin coupling and bond multiplicities are correct with regard to NMR spectra
 - (a) Coupling constant rarely exceeds 20 cps whilechemical shifts are over 1000 cps
 - (b) Spin Spin interactions are dependent of strength of the applied field
 - (c) Coupling constants increase with distance
 - (d) Equivalent nuclei interact with each other to show interaction
- 64. Most accepted mechanism for developing bacterial resistance to sulphonamides is
 - (a) An alternative metabolic pathway for synthesis of essential
 - (b) An increasing capacity to metabolize the drug



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	(c) Increased antagonism of drug
	(d) An alteration in enzyme that utilizes PABA
65.	All the dopaminergic agonists having affinity for D2 receptors are clinically used in following
	conditions except
	(a) Obsessive-compulsive disorder
	(b) Hyperprolactinemia
	(c) Acromegaly
	(d) Parkinsonism
66.	The labelling instruction "To be diluted 20 times its volume with water" indicates the dispensed
	product is a
	(a) Mixture (b) Elixir (c) Linctus (d) Mouthwash
67.	Which among the following is a structural variant of GABA and is used as a muscle relaxant
	(a) Metocurine (b) Tybamate (c) Baclofen (d) Cyclobenzaprine
68.	A steroidal phyto constituent lowering blood sugar is obtained from
	(a) Momordica charantia (b) Quillaja saponaria
	(c) Dioscorea deltoidea (d) Glycyrrhiza glabra
69.	Which of the following drug is associated with the reaction of extreme photosensitivity
	(a) Niacin (b) Digitalis C F(c) Tetracycline (d) Fluoroquinolones
70.	Which among the following statements related to Ceric sulphate as oxidizing agent, as titrant are correct
	(a) Ce (IV) during reaction exists as an anionic complex in media of sulphuric acid
	(b) Ionic equation is $Ce^{3+} \rightarrow Ce^{2+} + e^{-}$
	(c) Formal potential of Ce(III) Ce (II) couple is 1
	(d) Ce (IV) does not permit use of HCl as reducing media
71.	A labeled piece of DNA that is complementary to the sequence of DNA you are interested in, say the ger
	you are trying to put into cells, is called as
	(a) A probe (b) A receptor (c) A epitope (d) A target
72.	As per first schedule of Drugs and Cosmetics Act,1940, following is name of the book under Siddha system
	of medicine
	(a) Arka Prakasha (b) Yog Ratnakar (c) Nagamuni (d) Vrinda Chikitsa
73.	Amantidine is helpful in Parkinson's disease because
	(a) It liberates dopamine from nerve endings (b) It decreases cholinergic activity

(c) It is metabolized into dopamine

(d) It increases adrenergic activity



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74.	An intermediate 3- Chloroaniline 4, 6 - disulphonamide on heating with formic acid yields a compound								
	(a) 6 chloro 2H -1,2,4benzothiadiazine 7 sulphonamide								
	(b) 3 chloro-2H 1,2,4- benzothiadiazine 7 sulphonamide								
	(c) Used in treatment of urinary tract infections								
	(d) Used as antibacterial								
75.	Acetyl Choline is hydrolyzed by enzyme								
	(a) Acetylase (b) Cholinase (c) Acetylcholinesterase (d) Transferase								
76.	Rubella virus is associated with disease								
	(a) Progressive encephalitis (b) Enterovirus infection								
	(c) Yellow fever (d) Brucellosis								
77.	Which among the following electronic systems are not involved in the origin of UV spectrum								
	(a) s and p shell electrons (b) sigma and pi electrons								
	(c) Charge transfer electrons (d) d and f shell electrons								
78.	Which of the following is not a thermoplastic resin								
	(a) Phenolic plastic resin (b) Polystyrene								
	(c) Polyethylene (d) Polypropylene								
79.	Choose the right combination from the following CUSSION								
	(1) Diacytic stomata and sessile Trichome C E N T E (A) Datuar								
	(2) Paracytic stomata and Unicellular and multi cellular (B) Vasaka								
	(3) Anomocytic stomata and Unicellular and multi cellular (C) Senna								
	Trichome								
	(4) Anisocytic stomata and Multicellular covering trichome (D) Digitalis								
	(a) 1-B, 2-C, 3-D, 4-A (b) 1-C, 2-D, 3-A, 4-B								
	(c) 1-A, 2-D, 3-B, 4-C (d) 1-D, 2-B, 3-A, 4-C								
80.	Pharmaceutical alternatives possess								
	(a) Indentical therapeutic moiety/precursor but not in the same amount/dosage form								
	(b) Same amount of therapeutic moiety								
	(c) Same dosage form								
	(d) Same formulation ingredients in exactly same amount of dose								
81.	Topical application of timolol to the eye would be expected to induce which of the following								
	(a) Decreased formation of aqueous humor (b) Miosis								
	(c) Mydriasis (d) Increased outflow of aqueous humor								



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82.	82. The major component of liquid glucose isand is prepared from								
	(a) Maltose, Pectin (b) Dextrin, Starch (c) Dextrose, Starch (d) Gluco	ose, Starch							
83.	83. Which of the following formulations under ASU system are offered infinite period of	of shelf life in D and							
	C Act								
	(a) Asava&Arishta (b) Churna (c) Ghutika (d) Kwatha								
84.	84. Which of the following is an example of hemiesters anionic surfactant for pharmaceu	atrical emulsions							
	(a) Sulfosuccinates (b) Sarcosinates (c) Taurates (d) Lactylates	3							
85.		nanisms are in which							
	part of the process (a) The initiation of synthesis (b) The chain elongation process								
	(a) The initiation of synthesis(b) The chain elongation process(c) The chain termination process(d) None of the above								
86.	86. In DNA replication the newly added nucleotide is joined to the growing DNA st	rand by an enzyme							
	(a) DNA polymerase (b) DNA ligase								
	(c) Restriction endonuclease (d) Reverse transcriptase								
87.	87. Glycosides are condensation products of								
	(a) Protein + aglycone (b) Sugar + Protein								
	(c) Sugar + aglycone (d) Fats + aglycone								
88.	88. Which of the following dosage form of digoxin will provide greater bioavailability ba								
	(a) F equals 1.0 (b) F equals 0.32 (c) F equals 0.62 R (d) F equals 0.63								
89.		-							
	hemopoiesis the stem cells are converted in to myeloid stem cell and subsequently di								
	developed into precursor cells. Match the following precursor cells with the forme	d elements of blood							
	from which they are formed.								
	(1) Reticulocyte (A) Platelets								
	(2) Megakaryoblast (B) Macrophages								
	(3) Myeloblast (C) Erythrocytes								
	(4) Monoblast (D) Neutrophils								
	(a) 1-C, 2-A, 3-D, 4-B (b) 1-A, 2-C, 3-B, 4-D								
00	(c) 1-B, 2-D, 3-C, 4-A (d) 1-D, 2-B, 3-A, 4-C								
90.	90. Using Young's rule, calculate the dose for a 5 year old child if the adult dose is 340mg								
01	(a) 200 mg (b) 100 mg (c) 400 mg (d) 800 mg								
91.	·	.:J							
	(a) Measures conductance between two electrodes with AC powered Wheatstone br	iage							
	(b) Polarography involves plotting of conductance – voltage								
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	(c)	Potentiometry	involves	application	of Ilkoviced	uation
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(d) Coulometry involving application of Nernst law relating equivalence between quantity of electricity passed and amount of compound generated at electrodes

92.	Chemical	interferences	are	common	than	spectral	interf	erences	due to)
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- (a) Formation of compounds of low volatility
- (b) Ionization in flames
- (c) Increase in rate of atomization
- (d) No shift in ionization equilibrium

93. Phase 0 studies means

- (a) In vitro studies
- (b) Part of phase I studies of clinical trials
- (c) First in human microdosing studies
- (d) Studies carried out on small number of animals

94. Condensation product of Ethyl isopentyl ester of diethyl malonic acid with urea and sodium ethoxide yields

(a) Amylobarbitone

(b) Phenobarbitone

(c) Pentobarbitone

(d) Quinobarbitone

95. Clavulanic acid is

- (a) Inactivates bacterial lactamase
- (b) Protien inhibitor of peptidoglycan synthesis
- (c) Specific for gram negative bacteria (d) Inhibitor of 50S ribosomal subunit

96. The method by which different constituents of a liquid mixture can be separated without decomposition of the constituents is

- (a) Distillation under reduced pressure
- (b) Molecular distillation

(c) Steam distillation

(d) Fractional distillation

97. The preferred rheological behavior of Pharmaceutical suspensions is that of

- (a) Pseudoplasticity and thixotrophy
- (b) Pseudoplasticity
- (c) Dilatancy and thixotrophy
- (d) Pseudoplasticity and rheopexy,

98. An inventory turnover of a year is considered satisfactory

(a) Four to six times, Six

(b) To eight times

(c) One to two times

(d) None of the above

99. The number of glucopyranose units in the structure of alpha cyclodextrins are

- (a) 8
- (b) 9
- (c) 7
- (d) 6

100. The compound 2 - (Diethylamino) ethyl [bicyclohexyl] - 1-carboxylate hydrochloride is

(a) Dicycloverine

- (b) Diphenhydramine
- (c) Both nicotinic and specific antispasmodic,
- (d) Diagonistic agent for diagnosis of thyroid gland,

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101.	101. In new product development process, after analysis of business next step to be taken is									
	(a)	Test marketing	(b)	o) Penetration marketing						
	(c)	Brand marketing	(d)	d) Individual marketing						
102.	102. Which of the following alkaloid (f				ed to treat migrane					
	(a)	VInca (b) Coca		(c) Ergot	(d) Belladonr	na			
103.	Free	e flowing powders s	how a flatter co	ne a	nd have					
	(a)	Smaller angle of re	pose	(b)	Larger angle of repos	e,				
	(c)	Intermediate angle	of repose	(d)	None of the above,					
104.	The	WIPO is the specia	lized agency of t	the U	Inited Nations. It prom	otes protecti	on ofthroghout the			
,	world									
	(a)	Intellectual propert	ties	(b)	World properties					
	(c)	Pharmaceutical org	ganizations	(d)	Finace companies					
105.	Her	pesviruses are lar	ge encapsulated	d vir	uses that have doubl	e stranded D	NA genome thatencodes			
		•			•		in which virus persist in			
]	non	infectious form with	n periodic reacti	vatio		ctious virus. F	ollowing are the examples			
	of s	uch herpesvirus –e	xcept		JIAI					
	(a)	Epstein-Barr Virus			Herpes simplex					
	(c)	Varicella Zoster	V	(d)	Cytomegalovirus R					
106.	A fa	tty acid not synthes	sized in human b	ody	and has to be supplied	d in diet is				
	(a)	Stearic acid	(b) Oleic aci	d	(c) Palmitic acid		(d) linolenic acid			
107.	Che	mical class of drugs	that are suscep	tible	to oxidation are					
	. ,	Esters	(b) Lactam		(c) Sterols		(d) Carbamates			
		only analgesic actir								
	. ,	Methadone	(b) Naloxane	9	(c) Tramadol		(d) Naloxane			
		ropathy is adverse								
	. ,	Isoniazid	(b) Ethambu		(c) Pyrazinamide		(d) Dapsone			
110.	As p	oer I.P. if the solubili	-		s 30 to 100 parts, it wi	ll be				
	. ,	Soluble	(b) Freely so				(d) Slightly soluble			
111.	SDS	is used in PAGE of a	mixture of prote	eins	for their efficient separ	ation on the g	gel SDS, in the experiment			
		sed to								
		Have uniform char	_	_	~ -	•				
	(c)	Decrease the surfa	ce tension of bu	ıffer	(d) Solubilize	e the proteins				



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112. Indicate which of the following statements is true

- (a) A weakly acidic drug is unionised when pH of the solution is at last 2 pH units below its pKa
- (b) Acidic drugs are noninonized at pH 9
- (c) Acidic drugs are less soluble in alkaline solution
- (d) The higher the pKaof a weak acid, the stronger is acid

113. Dissemination of cancer occurs through one of the following pathway - except

- (a) Migration
- (b) Direct seeding
- (c) Lymphatic spread
- (d) Hematogenous spread

114. Which of the following alkaloids has hypotensive activity

- (a) Emetine
- (b) Quinine
- (c) Reserpine
- (d) Papaverine

115. Which of the following is a characteristic of cytochrome P-450

- (a) Catalyzes aromatic and aliphatic hydroxylations
- (b) Located in the lipophilic environment of mitochondrial membrane
- (c) Catalyzes O-, S-, N methylation reactions
- (d) Catalyzes conjugation reactions

116. The Michalis-Menten equation for standard for saturated active transport system is-

(a)
$$V_{\text{max}} = k_{\text{cat}}[E_0]$$

(b)
$$V_{\text{max}} = k_{\text{m}}$$

(b)
$$V_{\text{max}} = k_{\text{m}}$$
 (c) $V_{\text{max}} = k_{\text{m}}[S]$

(d) None

117. Which among the following describe the characteristic features of Tetracyline

- (a) Undergoes epimerization in solutions having intermediate pH range
- (b) Forms Anhydroustetracycline in presence of acidic
- (c) Forms Minocycline in basic medium
- (d) Forms stable chelate complexes with potassium ions

118. Cells that contribute for immune system are

- 1. T Lymphocytes
- 2. Eosinophil
- 3. B Lymphocytes
- 4. Dendritic cells
- 5. Erythrocytes
- 6. Natural killer cells
- (a) 1, 3, 4 and 6

(b) 1, 2, 4 and 6

(c) 1, 3, 5 and 6

(d) 1, 2, 5 and 6

119. Dielectric constant of Ethanol at room temperature is almost equal to

- (a) 24
- (b) 48
- (c) 54
- (d) 72



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120.	Foa	ming during liquid	d filling can b	e reduced by	following way:	s, except		
	(a)	Increase in speed	l of the filling	g line (b)	Minimised pr	oduct turbu	ılence	
	(c)	Closed system fill	ing	(d)	Defoaming de	evice		
121.	If t	ne excitation ene	rgy of the re	esonance levo	el is 2.10 eV (v	when hc=1	2,330) then	the wave-lengthof
	resc	nance line of sod	ium atoms is					
	(a)	577.2 nm	(b) 587.2 n	m (c)	567.2 nm	(d) 59	7.2 nm	
122.	Afte	er vascular injury,	platelets enc	ounter extrac	ellular matrix o	constituents	such as coll	agen and adhesive
	glyc	oprotein. On cont	act with thes	e proteins pl	ntelets undergo			
	1.	Adhesion						
	2.	Secretion						
	3.	Aggregation						
	4.	Degradation						
	(a)	1, 2 and 3	(b) 1, 2 and	4 (c)	1, 2, 3 and 4	(d) 1, 2	2 and 4	
123.	A re	porting relationsl	nip in which	an employee	receives orders	s from, and	reports to, or	nly one supervisor
	is k	nown as			DAT	Г		
	(a)	Unity of comman	d	(b) Central	isation			
	(c)	Decentralisation		(d) Line of	authoritySIO	N		
124.	In h	umans end produ	ct of purine	catabolism is	ENTE	R		
	(a) 1	Uric acid	(b) Urea	(c) Pur	ine oxide	(d) Xar	nthine	
125.	Whi	ch of the followin	g adverse eff	ects is caused	d by thioridazin	ie		
	(a) '	Tardive dyskinesia	a	(b) Constip	ation			
	(c)	Orthostatic hypot	tension	(d) All of the	ne above			
				End o	f paper			
				•				



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81-a	82-c	83-a	84-a	85-a	86-a	87-c	88-a	89-a	90-b
91-a	92-a	93-с	94 - a	95 - a	96-b	97-a	98-a	99-d	100-a
101-a	102-с	103-a	104-a	105-a	106-d	107-с	108-a	109-a	110-с
111-a	112-a	113-a	114-c	115-a	116-a	117-a	118-a	119-a	120-a
121-b	122-a	123-a	124-a	125-d					



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