

" नमो नारायणाय "

12th June 2005

①

NIPER

In law of thermodynamics use of perpetual machine is

- a) possible
 b) not possible

Andrographolide present in

- a) Katmegh
 b)

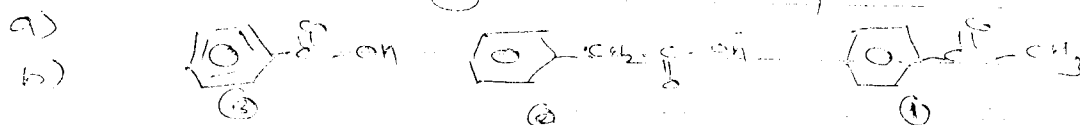
Ashwagandha contain what

- a) Methanoid
 b) Withanolides

Flow properties measured by

- a) angle of repose
 b) Karl index

$V_c = 0$ (i.e. VCI system) For benzoate, phenylacetate and acetophenone, give the sequence.



Karl Fischer method used to determine

- a)
 b) $\text{CH}_3\text{OH} + \text{I}_2 + \text{SO}_2 + \text{C}_6\text{H}_6$

7) In ion exchange polymer S polymer is used.

- a)
- b)

8) Which of the following is biodegradable polymer

- a) polyamide
- b) polycarbonate

9) C of the following is protophilic solvent

- a)
- b)

10) Which of the following is hydrophobic solvent

- a)
- b)

11) What is the I.R. Finger range

a) 850 - 1200 (2.5 μ m) 1250 cm^{-1}

b)

$$\mu m = \frac{1}{cm^{-1}} \times 10^4$$

12) U.V radiation can cause (i.e principle of U.V.)

- a) electronic distribution
- b)

13) Dry solids are sterilized by -

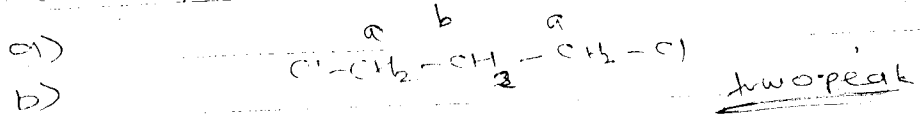
- a) Dry sterilization
- b) gas sterilization

14) Addition of chromophore (eg double bond) give

- a) bathochromic shift
- b) hypochromic shift

CH₂CH₂CH₂
| |
Cl Cl

13) 1,3 dichloropropane contains how many peaks



16) Reverse transcription is -

- a) RNA \rightarrow DNA
b)

17) Conversion or process of DNA \rightarrow RNA is called as

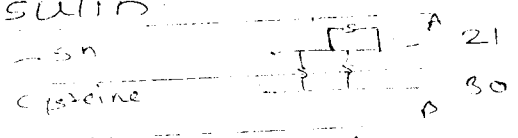
- a) transcription
b)

18) Introduction of DNA in bacteria is called as -

- a) Transversion c) Translocation
b) Transformation d)

19) Sulfonyl urea acts in the presence of -

- a) Endogenous insulin
b)



20) Insulin chain A & B linked by -

- a) disulfide bond
b)

21) Disulfide bond formed by ~~S~~ amino acid -

- a) cysteine - cysteine
b)

22) What the linkage between cysteine - cysteine called as -

- a) cystine
b)

23) Which of the following gum have anti d
betic activity

- a) Guar
- b)

24) Artemisinin have \in of the following activity

- a) antimalarial
- b)

25) Asparaginase have -

- a) antitumour activity.
- b)

26) Gingival hyperplasia is related \in

- a) phenytoin
- b)

27) Xanthan gum preferred over acacia why -

- a)
- b)

28) What is the use of cyclodextrin -

- a) \uparrow es solubility
- b)

29) In type-I diabetic patient insulin
release is caused by -

- a)
- b)

30) Hypokchemia is not caused by

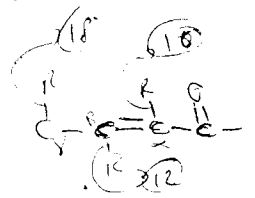
- a) spirinolactone
- b)

2.4
11-a-p-7
②
Which ^{are} of the following, ionized at physiological pH

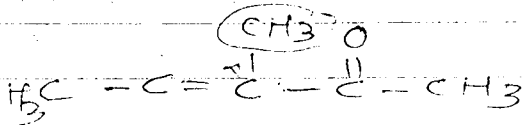
- a)
- b)

2) GABA receptor is -

- a) excitatory
- b) Inhibitory



3)



What is the value of α -methyl group

- a)
- b)

4) Which of the following are homoanilodiene -

- a)
- b)

5) Mode of action of cycloserine at molecular level (means at mitochondria)

- a)
- b)

6) Where the phase II metabolism takes place -

- a) cytosole
- b) mitochondria
- c) E.R
- d) ER

3.7) Product patent is started in India -

- a) 2005
- b)

38) In how many years financial committee (sellinase report) changes -

- a)
- b)

39) Salurnoff's test of glucose -

- a)
- b) xanthochrome (ketone)
fucose

40) Jointstock committee managed by -

- a)
- b)

41) Liver site directed drug therapy given by -

- a) Erythrocyte
- b)

42) cell membrane is made up of -
phospholipid bilayer

- a)
- b)

43) Resolution factor for efficiencial pressure -

- a)
- b)

44) Relative centrifugal force (RCF) is what in relation to centrifugal or gravitational force (i.e. ratio betⁿ them)

- a)
- b)

$$\frac{mv^2}{r} \div \frac{v^2}{rg}$$

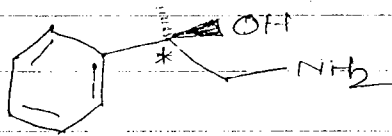
45) Which enzyme present in skeletal muscle converts ATP \rightarrow ADP

- a)
- b)

6) Actin & myosin are -

- a) Motor protein
- b) non motor -ll
- c) motor protein dependent on ADP
- d) none of the above

7) Give conformation of following str.



- a)
- b)

8) Mycolic acid is the requirement for antimycotic bacterial - ~~axial~~ or

- a) True
- b) False

9) Above structure is

- a) Fischer
- b) Newman
- c) Quach
- d)

10) Nitrous oxide is -

- a) vasodilator

51) skeletal muscle vasodilator is -
a) Nitric acid c) propofol
b) Isoprenaline

52) Preanesthetic medication
- a) atropine
b) morphine

53) If general anesthetic is low soluble in body fluid, what is its effect -
a) prolonged actn
b)

54) Termination of short acting barbiturate i.e. of thiopental is by -
a) excretion c) redistribution
b) metabolism d)

55) Which of the following is air pollutant
a) HNO_3
b)

56) Coeff. of variance of x & y is 0.81 then what is correlation betn x & y
a)
b)

57) Which drug causes hyperthermia
a)
b)

58) First line body defence antibodies -
a) IgM
b) IgG

Peripherally & centrally emesis caused by
a) apomorphine c) CuSO_4
b) digitalis

50) Which of the following lowers the cholesterol -

- a) statin derivative
- b)

51) I M T A is given by 2 3 4.5 & N I A T is . . . then I M I B M is represented by -

- a)
- b)

52) Ginseng is obtained by

- a)
- b)
- c)
- d)

53) Dicytic stomata are found in -

- a) senna — Paracytic
- b) digitalis — Anomocytic

54) Protein synthesis is started by -

- a) exonic part of DNA
- b) exonic part of DNA
- c) m-RNA
- d) none of the above.

55) What is the activator or function of primer & template

- a)
- b)

56) Tryptophan is coded by -

- a)
- b)

67) Following are the stop codons except

- a) UAA
 - b) UAG
 - UGA
- } stop codons.

68) Q - fever is caused by -

- a)
- b)

69) chloroquine is used in

- a) resistance *Falciparum*
- b) Relapsing vivax
- c) Resistance *plasmodium ovale*
- d) none of the above

70) First stereochemistry is observed by -

- a) Kekule rule
- b)

71) Agar is used as solidifying media first by the scientist -

- a)
- b)

72) Tyndalization is -

- a)
- b)

73) Nephelometry & Turbidimetry is based on the principle of -

- a) scattering of light
- b)

1) Azole has high affinity for antifungal activity, basic requirement is -

a) Fe^{+++}

b) Ergosterol

2) Cardiac Ca^{++} channel in heart -

a) ligand gated

b) voltage gated

c) all of the above.

3) what is the opposite meaning of ~~obstude~~ word - obstude x

a)

b)

4) DAEWOO of south Korea is joined in India with company -

a) Hindustan

c) DCM

b) Masuti

d) None of the above

5) molecule containing chlorine gives peak -

a)

b)

6) Flash injection analyser is -

a)

b)

7) Primary packaging in injectable except

a) Al. foil

b)

81) First pass metabolism is caused by
a) oral b) lower rectal c) vaginal d)

82) Infectious hepatitis involves
a) Alanine amino transferase
b) aspartate
c) Creatinine kinase

83) Right handed loop in helical str. of protein has -
a) Lonic bonds
b)

84) Gas is liquified or compressed to solid by -

- a) Lonic bonding
- b) linear hydrogen bonding
- c) covalent bonding
- d) all of the above

85) $C \equiv C$ extra bond present in this -

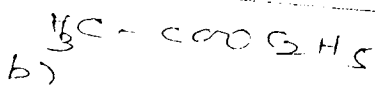
- a)
- b)

86) In $C \equiv C$ & $C = C$, if Δ value of NMR \downarrow or \uparrow , what will happen -

- a)
- b)

87) NMR interpretation of following structure i.e. Δ value (D)

a)



c)

D)

Q is the symbol of α amino acid

- a) glutamic acid
- b)

(4)

89) which is the direct compressible polymer used -

- a)
- b)

90) HPMC phthalate used in -

- a) enteric coating
- b)

91) IF drug get hydrolysed then C of Formulation is used -

- a) direct compression
- b)

92) which one of the following is not used in CDDS i.e. controlled release or as penetration enhancer -

- a)
- b)

93) Renal impairment is caused by -

- a) cisplatin
- b) pyroxicam

94) The sub. having high affinity but no efficacy is

- a) antagonist
- b)

81) First pass metabolism is -

95) competitive antagonism is -

- a)
- b)

96) competence is -

a) in bacteriology

97) α & β OF D(+) glucose are -

- a) Epimer
- b) anomers
- c) diastereomer
- d) none of above

98) cis - 2,5 ... are

- a) meso
- b) racemic
- c) enantiomer
- d)

99) proteomics is -

- a) study of protein
- b) \rightarrow RNA
- c) \rightarrow DNA
- d) all of the above

100) In down stream processing penicillin
pH adjusted to 2 for

- a) \uparrow solubility
- b) \downarrow solubility

101) Bulk property of powder determined by -

- a) U.V.
- b) fluorescence
- c) P.I
- d) none of the above

02) 15 carbon moiety in malonic acid pathway is -

- a) Formyl pyruvate phosphate (formyl)
- b)

03) Isotonicifier is used in

- a) Parenterals
- b)

04) Particle size ↓ as

- a) suspn
- b) emulsion
- c) colloid
- d) all of the above.

05) Particle size of emulsion -

- a)
- b)

105) What is mean by isocratic -

- a)
- b)

107) What is - Isobeistic

- a)
- b)

108) P watch goes back to 1 min/day & Q watch goes back to 1/2 min/day at what time

- a)
- b)

109) 2:3 is ratio for rectangles ^{ular} length weight. If it is used is $\frac{1}{6}$ hexane what is circumference?

- a)
- b)

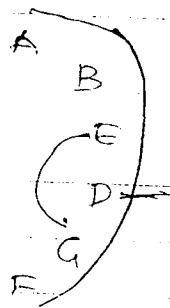
110) person reduction $9 \rightarrow 8$ & per person wages \uparrow is $15 \rightarrow 14$, what is total wages?

- a) $20 \rightarrow 21$
- b)

111) $A+B > C+D$, $B+E = 2C$, $C+D > B+E$ then

- a) $A+B > 2C$
- b)

112)



Ans - D

113) ABCD represents 1, 3, 4, 2 INOX represent 6 & 9 0 then IBCX represent

- a)
- b)

114) which of following is ketosugar -

a)

b)

115) which of the following stationary phase used in ion-exchange chromatography

a)

b)

116) what is tailing effect (mathematically)

a)

b)

117) when atoms are produced by atom bombarding -?

a)

b)

118) which is soft-ion source of mass spectroscopy -

a)

b)

119) Atom containing -Cl atom, s type of mass spectrum produced

a) M^* , $M+2$

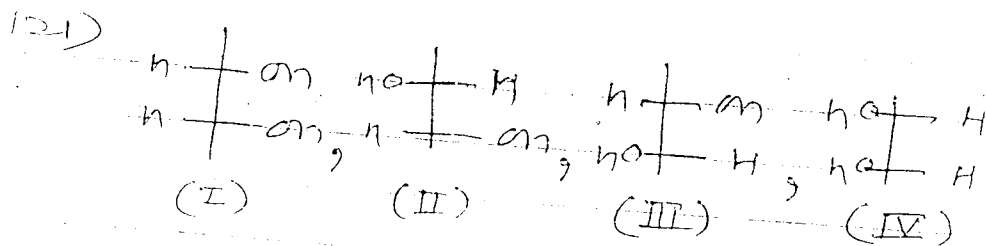
b) M^* , $M+2$, $M+4$

c) M^* , $M+4$

d) none of the above.

2) Phthalate used for enteric coating

- a)
- b)



Which of the above are diastereomers of each other -

- a)
- b)

122) Electrophoresis depends on -

- a) physical process
- b) physio-chemical
- c) chemical
- d) none

123) Which of the following is basic unit of volatile oil -

- a)
- b)

124) Patient eat ripe fruit, which of the following is not excreted -

- a) aspirin
- b) clonidine

125) cis & trans stilbenes are called

- a) epimer
- b) anomer
- c) enantiomer
- d) diastereomer

1,3-dimethyl cyclohexane are axial
then C is true -

- a)
- b)

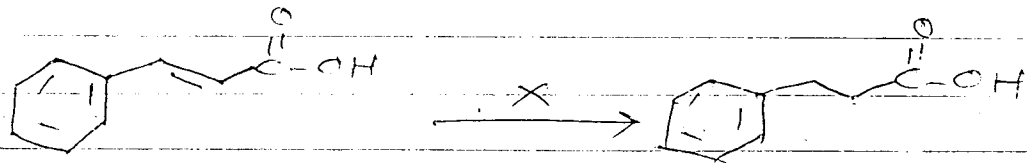
1) Which of the following is not true
for chiral carbon -

- a) plane of symmetry
- b)

2) ACE inhibitor are contained in -

- a) rough
- b)

3) 1)



then X is -

- a) LiAlH_4
- b) BH_3
- c) alony... NaOH
- d) None of the above

130) Totipotency means -

- a)
- b)

131) For glycolysis C is not true -

- a) present in animal cell body
- b)
- c)
- d)

Average temp. of SUN, MON, TUE
40°C MON, TUE, WED is 41°C & if
temp. of WED is 42°C then
what is the temp. of SUN -

a)

b)

133) $x : y = 2 : 3$ & $z : x = 1 : 2$
then $y = ?$

a)

b)

c)

d)

134) plasma membrane consist of

a)

b)

135) Facilitated diffusion consist of -

a)

b)

136) In reverse phase chromatography c
mobile phase is used -

a)

b)

137) cytosine & Guanine bond is more
stable because -

a) Additional H₂ bond

b)

138) Tween - 80 means

a) laurate

c)

b) olate

d)