

# NIPER MODEL PAPER -1

**1. Headquarters of Securities and Exchange Board of India**

- (a) Chennai
- (b) Kolkata
- (c) Mumbai
- (d) New Delhi

**2. Work! Earth Day is**

- (a) 20 April
- (b) 21 April
- (c) 22 April
- (d) 23 April

**3. ABC analysis based on**

- (a) Cost of material
- (b) Money value of consumption
- (c) Both (a) and (b)
- (d) Type of material

**4. Which of the Benzivoquinoline derivatives has analgesic**

- (a) Morphine
- (b) Papaverine
- (c) Codeine action
- (d) None of these

**5. Full form of ICH is**

- (a) International Congress on Harmonization
- (b) International Conference on Harmonisation
- (c) International Conference on Health
- (d) International Control on Health

**6. Invert sugar among the following sugars is**

- (a) Sucrose
- (b) Galactose
- (c) Fructose
- (d) Mannose

**7. Rennet is used in**

- (a) Bread making
- (b) Fermentation
- (c) Cheese making
- (d) Antibiotics synthesis

**8. Furosemide acts by inhibiting the following in the renal tubular cell**

- (a)  $\text{Na}^+\text{-K}^+\text{-2Cl}^-$  cotransporter
- (b)  $\text{Na}^+\text{-Cl}^-$  symporter
- (c)  $\text{Na}^+\text{-H}$  antiporter
- (d)  $\text{Na}^+ \text{K}^+$  ATPase

**9. Phenolphthalein is a. type of Indicator**

- (a) Acid-base
- (b) Oxidoreductase
- (c) Universal
- (d) Nonaqueous

**10. The T wave on an ECG represents**

- (a) Ventricular depolarization
- (b) Ventricular repolarization
- (c) Atrial depolarization
- (d) Atrial repolarization

**11. Which of the following would be a toxin (poison of biological origin) ICH guideline responsible for the analytical validation**

- (a) Q2 (R2)
- (b) Q2 (R1)
- (c) Q1 (R2)
- (d) Q1 (R1)

**12. Which of the following can make difference in optical isomers**

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- (a) Heat
- (b) Temperature
- (c) Polarized light
- (d) Pressure

**13. Which of the following agents inhibits hepatic metabolism of hypnotics**

- (a) Flumazenil
- (b) Cimetidine
- (c) Phenytoin
- (d) Theophylline

**14. Ionic bonds are formed when**

- (a) Atoms share electrons
- (b) Electrons are completely transferred from one atom to another
- (c) A pair of electrons is shared unequally by two atoms
- (d) Hydrogen forms bonds with negatively charged atoms

**15. MULL is the term related to sampling technique in which spectroscopy**

- (a) FT-IR
- (b) UV
- (c) NMR number
- (d) Mass

**16. Current Lok Sabha of India is of**

- (a) 14th
- (b) 15th
- (c) 16th
- (d) 17<sup>th</sup>

**17. A nucleotide consists of**

- (a) A five- carbon sugar and phosphate group
- (b) A five- carbon sugar and a nitrogenous base
- (c) A phosphate group and a nitrogenous base
- (d) A five-carbon sugar, a nitrogenous base, and a phosphate group

**18. Strongest acid among the following is**

- (a)  $C_6H_{12}pK_a=52$
- (b)  $CH_3CH_3pK_a=50$
- (c)  $CH_3CH_2OHpK_a= 18$
- (d)  $CF_3CO_2HpK_a=0$

**19. Each of the following is an examples of a non-membranous organelle, except**

- (a) Lysosomes
- (b) Cilia
- (c) Centrioles
- (d) Ribosomes

**20. Diffusion of a substance across the cell membrane is influenced by all of the following. EXCEPT**

- (a) Hydrolysis of ATP
- (b) The charge on the ion
- (c) The presence of the membrane channels solubility
- (d) Concentration gradient and lipid

**21. The D in Glucon-D stands for**

- (a) Di hydrate

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- (b) Dehydrate
- (c) Dextran

(d) Dextrose

**22. Which of the following branch of chemistry is considered to carbon compound**

- (a) Organic
- (b) Inorganic
- (c) Physical
- d) All of these

**23. IR spectrum studied by using specific wave number and specific type of.....movement in between the bond of molecules**

- (a) Vibrational
- (b) Atomic radius
- (c) Rotational
- (d) Both (a) and (c)

**24. Cytarabine is a neoplastic drug which is**

- (a) G1 phase specific
- (b) G0 phase specific
- (c) G2 phase specific
- (d) S phase specific

**25. Nobel prize decided /given by**

- (a) The Royal British Academy of Sciences
- (b) The US government
- (c) The IUPAC committee
- (d) The Royal Swedish Academy of Sciences

**26. The rules for drugs and cosmetics act were framed in the following year**

- (a) 1940
- (b) 1945
- (c) 1960
- (d) 1972

**27. The envelope of an enveloped virus is derived from which of the following sources**

- (a) The viral capsomeres
- (b) The host cell membrane
- (c) The viral matrix proteins
- (d) The 80S ribosome and retroviral reverse transcriptase

**28. The maximum MPs in the House of the People are**

- (a) 530
- (b) 540
- (c) 552
- (d) 230

**29. An important buffer in body fluids is**

- (a) NaCl
- (b) NaOH
- (c) HCl
- (d) NaHCO

**30. Inner surface of the bronchi, bronchioles and fallopian tubes are lined by the**

- (a) Cubical epithelium
- (b) Columnar epithelium

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(c) Squamous epithelium

(d) Ciliated epithelium

**31. Streptomycin is an antibiotic which is**

(a) Di-acidic base having an aldehydic carbonyl group

(b) Tri-acidic base having an aldehydic carbonyl group

(c) Neutral compound having a ketonic group

(d) Acidic compound having a carboxylic group is India's highest military decoration awarded for the highest degree of valour

**32. The or self-sacrifice in the presence of the enemy**

(a) Shaurya Chakra

(b) Vir chakra

(c) Maha vir chakra

(d) Param Vir Chakra

**33. ACTH is secreted**

(a) Adrenal cortex from

(b) Pituitary

(c) Adrenal Medulla

(d) Thyroid

**34. Hematological testing of a patient with AIDS is most likely to show which of the following abnormalities**

(a) Basophilia

(b) Eosinophilia

(c) Lymphopenia

(d) Reticulocytosis & Agranulocytosis

**35. Largest cotton producing country is**

(a) US

(b) India

(c) UK

(d) China

**36. Which alkaloid was isolated from opium as the first crude drug**

(a) Morphine

(b) Nicotine

(c) Cocaine

(d) Caffeine

**37. The displacement of electrons in a multiple bond in the presence of attacking reagent is called**

(a) Inductive effect

(b) Electromeric effect

(c) Resonance

(d) Hyper conjugation

**38. Kernicterus is a diseased condition which is caused**

(a) Increased level of blood oxygen level due to

(b) Decreased level of blood oxygen level

(c) Inefficiency in conjugation of free bilirubin by liver of neonates

(d) None of the above

**39. Which BCS class shows High Solubility & Low Permeability**

(a) BCS Class I 40

(b) BCS Class II

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(c) BCS Class III.

(d) BCS Class IV

## 40. What is RT-PCR technique

(a) For amplifying a define piece of RNA

(b) For amplifying a define piece of DNA

(c) For amplifying a define piece of liposome

(d) None of the above

## 41. Which of the following is a not a five membered ring

(a) Pyridine

(b) Pyrrole

(c) Furan

(d) Thiophene

## 42. Drug which does not belong to leaves class

(a) Senna

(b) Digitalis

(c) Eucalyptus

(d) Turmeric

## 43. First antibiotic was discovered by

(a) Ernst Chain

(b) Florey

(c) Both (a) and (b)

(d) Alexander Fleming

## 44. BMI value for normal person

(a) Below 17

(b) 17-24

(c) Above 30

(d) 25-45

## 45. Which of the following are higher boiling product

(a) Grease & wax

(b) Diesel

(c) Heating oil

(d) Gases

## 46. This drug is a Classic antiarrhythmic drug

(a) Flecainide

(b) Sotalol

(c) Lidocaine

(d) Verapamil

## 47. Shale oil is a

(a) Mixture of hydrocarbons called kerogen

(b) Tight" oil is light crude oil found inside shale rocks

(c) Oil sands contain bitumen (a form of petroleum)

(d) All of the above

## 48. Primary drug for the Psoriasis

(a) Topical corticosteroids

(b) Systemic

(c) Oral corticosteroids corticosteroids

(d) None of these

## 49. Which one of these vitamins is required for DNA synthesis

(a) Biotin

(b) Folate

(c) Pantothenic acid

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(d) Vitamin B6

**50. Cyclosporine has following attributes**

(a) Specific T cell inhibitor

(b) Immunostimulant

(c) Both (a) and (b)

(d) B cell inhibitor



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