

NIPER MODEL PAPER - 3

1. Tourniquet test can be done for diagnosis of

- (a) Syphilis
- (b) Dengue
- (c) Malaria
- (d) AIDS

- (a) -10°F
- (c) -18°F
- (b) $+22^{\circ}\text{F}$
- (d) $+14^{\circ}\text{F}$

2. Ethacrynic acid belongs to the class of

- (a) Loop diuretic
- (b) ACE inhibitor
- (c) Aklosterone antagonist
- (d) Diuretic

7. Limit test apparatus for arsenic

- (a) Nessler's
- (b) Kjekiahl apparatus cylinder
- (c) Kipps apparatus
- (d) Gutzelt apparatus

3. Least prime number is

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

8. Which of the following one is not a disaccharide

- (a) Glucopyranose
- (b) Maltose
- (c) Sucrose
- (d) Lactose

4. Which of the following drug belonging to antibiotics-monobactams

- (a) Ampicillin
- (b) Bicillin-5
- (c) Aztreonam
- (d) Imipenem

9. SAM denotes for

- (a) Severe acute malnutrition
- (b) Safe above management
- (c) Same above management
- (d) Severe anemic male

5. Human Insulin contains how many amino acids

- (a) 20
- (b) 31
- (c) 51
- (d) 61

10. Fall form of ICRC

- (a) Indian Committee of the Red Cross
- (b) International Committee of the Red Cross
- (c) International Commission of the Red Cross
- (d) International Committee of the Red Corner

6. Equivalent to -10°C

11. Which of the following is the smallest of the RNAS

NIPER MODEL PAPER - 3

- (a) Messenger RNA
- (b) Transfer RNAS**
- (c) Ribosomal RNAS
- (d) All of these

12. Synonym of term Massive

- (a) Strong**
- (b) Huge
- (c) Little
- (d) Lump sum

13. Class II Antiarrhythmic drugs

- (a) Slow phase 0 depolarization
- (b) Suppress phase 4 depolarization**
- (c) Shorten phase 3 depolarization
- (d) Prolong phase 3 depolarization

14. Ultraviolet light can damage a DNA strand causing

- (a) Two adjacent purine residues to form a covalently bounded dimer
- (b) Two adjacent pyrimidine residues to form covalently bonded dimer**
- (c) Disruption of phosphodiesterase linkage
- (d) Disruption of non-covalent linkage

15. Which of the following metabolite integrates glucose and fatty acid metabolism

- (a) Acetyl CoA**
- (b) Pyruvate
- (c) Citrate
- (d) Lactate

16. Governor of RBI 2023 is

- (a) Bimal Jalan
- (b) Y.V. Reddy
- (c) Subbarao
- (d) Shaktikanta das**

17. When fructose-1-3 will be bisphosphate is oxidized in aerobic respiration, ATP production

- (a) 38**
- (b) 36
- (c) 32
- (d) 24

18. Borrelia recurrentis is causative organism for

- (a) Plague
- (b) Lyme disease
- (c) Relapsing fever**
- (d) Dengue

19. In the fermentation process, animal or vegetable lipids are used as

- (a) Antifoaming agent**
- (b) Inhibitor of unwanted metabolic process in lack of O₂
- (c) Source of carbon
- (d) pH maintaining agent

20. Which one of the following is a cell mediated hypersensitive reaction

- (a) Type I
- (b) Type II
- (c) Type III
- (d) Type IV**

NIPER MODEL PAPER - 3

21. ETC is located at

- (a) Inner mitochondrial membrane
- (b) Outer mitochondrial membrane
- (c) Intermembranous space
- (d) Mitochondrial matrix

22. Carboxyhemoglobin is formed by binding of hemoglobin with

- (a) Co
- (b) CO₂
- (c) CHO
- (d) COO

23. The enzyme amino acyl tRNA synthetase is involved in

- (a) Dissociation of discharged tRNA from 80S ribosome
- (b) Charging of tRNA with specific amino acids
- (c) Termination of protein synthesis
- (d) Nucleophilic attack on esterified carboxyl group of peptidyl tRNA

24. Extinction coefficient is dependent upon

- (a) Path length
- (b) Molecular weight
- (c) Molar concentration
- (d) All of these

25. Schiff's base formation is characteristic of

- (a) Alcohols
- (b) Aldehydes-ketones
- (c) Acids
- (d) Esters

26. Laboratory glass ware are sterilized by

- (a) Gaseous sterilization
- (b) Hot air sterilization
- (c) Autoclave
- (d) Treating with disinfectant

27. Accidental errors are also called as

- (a) Indeterminant error
- (b) Random error
- (c) Both (a) and (b)
- (d) None of these

28. Curie point of triglycine sulphate is

- (a) 47°C
- (b) 74°C
- (c) 38°C
- (d) 83°C

29. Flutamide is a drug belonging to the category

- (a) Anti estrogen
- (b) Anti androgen
- (c) Anti somatostatin
- (d) None of these

NIPER MODEL PAPER - 3

30. Amino acids are almost completely reabsorbed from the glomerular filtrate via active transport in the

- (a) Proximal tubule
- (b) Loop of Henle
- (c) Distal tubule
- (d) Collecting duct

31. Cardiac output is equal to

- (a) Diastolic BP + $\frac{1}{3}$ (Systolic BP - diastolic BP)
- (b) $HR \times SV$
- (c) EDV-ESV
- (d) EDV-SV \times HR

32. The Na-Cl symport in the early distal convoluted tubule of the kidney is inhibited.

- (a) Thiazides
- (b) Metolazone
- (c) Xipamide
- (d) All of these

33. An Eukaryotic ribosome is made up of.....sub unit

- (a) 40S and 60S
- (b) 40s and 50s
- (c) 40S and 80S
- (d) 60S and 80S

34. In Polymerase chain reaction Denaturation is carried out at what condition (temperature & time)

- (a) At 95 deg * C for 1 min
- (b) At 95 deg * C for 2 min
- (c) At 55 deg * C for 2 min
- (d) At 55 deg * C for 1 min

35. The range of finger printing region in IR

- (a) 4000 - 3000 cm^{-1}
- (b) 4000 - 1400 cm^{-1}
- (c) 1400 - 667 cm^{-1}
- (d) 3000-300 cm^{-1}

36. Given all are reaction intermediates except one

- (a) Carbocation
- (b) Carbanion
- (c) Nitrene
- (d) None of these

39. In the reaction, H_2O_2 act as $Ag_2O + H_2O_2 \rightarrow 2Ag + H_2O + O_2$

- (a) Reducing agent
- (b) Oxidizing agent
- (c) Bleaching agent
- (d) None of these

40. Software used in docking

- (a) MM2
- (b) Pymol
- (c) MOPAC
- (d) AM1

41. Waken inversion occurs in which of following reaction

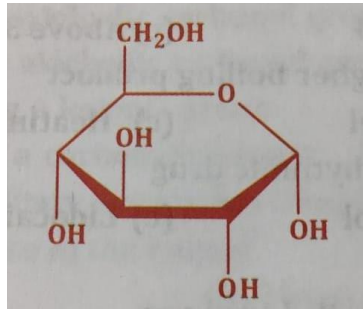
- (a) E_1CB
- (b) E_2CB

NIPER MODEL PAPER - 3

(c) SN₁

(d) SN₂

42. Following compound acts as



a) Antiseptic

(b) Antibiotic

(c) Analgesic

(d) Pesticides

43. EOQ stand for

(a) Economic Order Quality

(b) Economic Order Quantity

(c) Easy Order Quantity

(d) Economic

44. Which of the following pairs is not correctly matched

(a) Vitamin B3-

(b) Vitamin B12 - Pernicious anemia

(c) Vitamin C- scurvy

(d) Vitamin B6-Beriberi

45. IF $2x + y = 10$ & $x + 3y = 10$ then

find x & y

(a) 4 and 2

(b) 2 and 4

(c) 1 and 3

(d) 3 and 1

46. The antonym of Equivocate

(a) Distinguish

(b) Confront

(c) Yields

(d) Vary

47. The following antiarrhythmic drug increases the plasma concentration of digoxin

(a) Lidocaine

(b) Adenosine

(c) Phenytoin

(d) Quinidine

48. The primary renal site for the secretion of organic ions e.g., urate, creatinine is

(a) Proximal tubule sets

(b) Loop of Henle

(c) Distal tubule

(d) Collecting duct

49. Which of the following is used in absence seizures

(a) Phenytoin

(b) Phenobarbital

(c) Tiagabine

(d) Ethosuximide

50. Glucon D is manufactured by

(a) Dr Reddy

(b) GSK

(c) Dabur

(d) Heinz