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1. Which amino acid contains imidazol the condition for determination of bloom strength of gelatin ring

- (a) Asparagine
- (b) Glutamine
- (c) Tryptophan
- (d) Histidine**

2. Identify

- (a) 4mm, 66.66% w/w, 20°C, 24 hours
- (b) 4mm, 66.66% w/w, 10°C, 24 hours
- (c) 4mm, 6.66% w/w, 25°C, 20 hours
- (d) 4mm, 6.66% w/w, 10°C, 17 hours**

3. Sertraline belongs to which class of compounds

- (a) MAO inhibitor
- (b) Serotonin reuptake inhibitor**
- (c) Nor epinephrine reuptake inhibitor
- (d) None of these

4. All are true about immunosuppressants, EXCEPT

- (a) Tacrolimus inhibits calcineurin pathway
- (b) Steroids binds to cytosolic receptors and heat shock proteins
- (c) Mycophenolate inhibits purine synthesis via GMP dehydrogenase**
- (d) Sirolimus will block kinase in the 11-2 receptor pathway

5. Daughter cells are separated in phase of cell cycle

- (a) Prophase
- (b) Interphase

- (c) Tebphase**
- (d) Metaphase

6. Podophyllotoxin is

- (a) Diterpene derivative
- (b) Flavone derivative
- (c) Lignan derivative**
- (d) Flavanol derivative

7. Amino acid which is/are both glycogenic and ketogenic

- (a) Isoleucine
- (b) Phenylalanine
- (c) Tryptophan
- (d) All of these**

8. Cilastatin is inhibitors of which enzyme among the following

- (a) DNA polymerases
- (b) Dehydropeptidase**
- (c) Dipeptidyl peptidase
- (d) HMG CoA reductase

9. Who is responsible for the issue of one rupee currency note

- (a) SBI
- (b) RBI
- (c) President of India
- (d) Ministry of Finance**

10. The compound C₄H₁₀O is an isomer of

- (a) C₃H₇COCH₃
- (b) C₂H₅OC₂H₅**
- (c) CH₃COOC₂H₅

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(d) CH_3COOH .

11. MHC class I proteins are present on the surface of

- (a) B cells only
- (b) T cells only
- (c) Macrophages only
- (d) All cells

12. BCG vaccine lab located at

- (a) Mumbai
- (b) Lucknow
- (c) Chennai
- (d) Kolkata

13. Aprotic solvents has

- (a) Acidic properties
- (b) Basic properties
- (c) Both (a) and (b)
- (d) No acidic and basic properties

14. The pharmacy Council of India is constituted by the

- (a) Central Government
- (b) State Government
- (c) Parliament
- (d) Legislative Assembly

15. One psig is equal to

- (a) psia - 14.7
- (b) psia-15.7
- (c) psia -16.7
- (d) psia - 17.7

16. The vesicular systems of lipid bilayers made up of non-ionic surfactants are

- (a) Liposomes
- (b) Niosomes
- (c) Microspheres
- (d) Nano particks

17. Many drugs are chiral In synthesis of a chiral drug molecule in symmetric environment

- (a) Always one enantiomer is obtained
- (b) Always both enantiomers are obtained in equal amounts
- (c) Always both enantiomers are obtained in unequal amounts
- (d) None of the above

18. Reye syndrome reported with

- (a) Isoniazid
- (b) Paracetamol
- (c) Aspirin
- (d) All of these

19. Storage facility is function of marketing are provided by which type of warehouse

- (a) Private
- (b) Public
- (c) Bonded
- (d) All of these

20. Indicator used in Fajan's method is

- (a) Fluorescin
- (b) Rhodamine
- (c) Both (a) and (b)

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(d) None of these

21. Use of Isoniazid is restricted due to

- (a) Ototoxicity
- (b) Hepatotoxicity**
- (c) Neurotoxicity
- (d) Bone marrow depression

22. Vaccines and toxoids are precipitated and absorbed on to aluminum hydroxide or other suitable media. This process results in a dosage form that in comparison to fluid forms possess advantage-

- (a) More effective orally
- (b) Absorbed slowly
- (c) Stability is increased**
- (d) Irritation is lost

23. Cycloserine is structural analogue of

- (a) Nicotinamide
- (b) D-alanine**
- (c) Folic acid
- (d) None of these

24. In HPLC particle diameter of packing column is

- (a) 10 μ m**
- (b) 30 μ m
- (c) 100 μ m
- (d) None of these

25. Colchicine is biosynthesized from

- (a) Phenyl alanine and tyrosine**
- (b) Ornithine and Hygrine

(c) Phenyl alanine and tryptophan

(d) None of these

26. Which of the following pair has dipole moment

- (a) CO₂ and CH₄
- (b) NH₄ and CH₃Cl**
- (c) NH₄ and CH₃Cl
- (d) Br₂ and H₂O

27. In a-cyclodextrin, number of glucose molecules are

- (a) 6**
- (b) 7
- (c) 8
- (d) None of these

28. Non reducing sugar among the following is

- (a) Glucose
- (b) Fructose
- (c) Trehalose**
- (d) Lactose

29. The distance spanned by one turn of B form DNA is

- (a) 1.0 nm
- (b) 2.0 nm
- (c) 3.0 nm
- (d) 34 nm**

30. The Mantoux test uses

- (a) Old tuberculin**
- (b) Diphtheria toxins
- (c) Serum antigens

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(d) Polysaccharide antigens

31. 10 to 30 parts of solvent required for 1 part of solute to characterize a drug X. Identify the solubility status of the drug solubility status of

- (a) Freely soluble
- (b) Soluble**
- (c) Slightly soluble
- (d) Sparingly soluble

32. Which of the following group is electron donor

- (a) -NH,**
- (b) -COOH
- (c) -CN
- (d) -CHO

33. The IR spectra appears at the wave number

- (a) 4000-400 cm**
- (b) 900-400 cm
- (c) 4000-900 cm
- (d) 400-40 cm

34. Tropane alkaloids are biosynthesized from

- (a) Ornithine**
- (b) Tryptophan
- (c) Tyrosine
- (d) Phenylalanine

35. Beta-lactam antibiotics kill bacteria as a result of

- (a) A deterrent effect on the bacterial cell membrane
- (b) Destruction of the bacterial cell nucleus
- (c) Inhibition of bacterial protein synthesis
- (d) Inhibition of bacterial cell wall synthesis**

36. Aspartame has the main disadvantage as

- (a) Carcinogenic
- (b) Less sweeter than sucrose
- (c) Hygroscopic in nature**
- (d) Sour after taste

37. What is business

- (a) Selling or buying of goods**
- (b) Production of goods
- (c) Store of goods
- (d) None of these

38. Visualizing agent which is used for the identification of amino acid on TLC plate in the development chamber at an angle of placed

- (a) Sulfuric acid, 90°
- (b) Chromic acid, 30°
- (c) Ninhydrin, 45**
- (d) All of these

39. Main disadvantage of controlled drug delivery system is

- (a) Maximum efficacy-dose relationship
- (b) Minimization of dose
- (c) Dose dumping**

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(d) All of these

40. 2.5×10^{-4} M solution of a substance in a 1cm length cell at 245 nm has absorbance 1.17. Calculate for this solution.

- (a) $0.468 \times 10^4 \text{ L mol}^{-1} \text{ cm}^{-1}$
- (b) $46.8 \times 10^4 \text{ L mol}^{-1} \text{ cm}^{-1}$
- (c) $0.648 \times 10^4 \text{ L mol}^{-1} \text{ cm}^{-1}$
- (d) $0.864 \times 10^4 \text{ L mol}^{-1} \text{ cm}^{-1}$

41. Amended Indian Patent Act 1970 is effective from

- (a) 2005
- (b) 2006
- (c) 2007
- (d) 2008

42. Aromatic amino acid.

- (a) Phenylalanine
- (b) Tyrosine
- (c) Tryptophan
- (d) All of these

43. An animal used for the study of insulin preparation

- (a) Horse
- (b) Dog
- (c) Pigeon
- (d) Chicken

44. Which of the following act by inhibiting aminotransferase and 30S ribosome

- (a) Tetracycline

- (b) Erythromycin
- (c) Rifampin
- (d) Chloramphenicol

45. α -amylase is obtained from which micro-organism

- (a) Aspergillus oryzae
- (b) Aspergillus niger
- (c) Bacillus subtilis
- (d) All of these

46. Current president of PCI (Pharmacy Council India)

- (a) Dr. B. N. Gosh
- (b) Dr. B Mukhrjee
- (c) Dr. Nityanand
- (d) Dr. Montukumar Patel

47. NF- κ B (nuclear factor kappa-light-chain-enhancer of activated B cells) is a protein complex that controls

- (a) Protein synthesis
- (b) RNA synthesis
- (c) Transcription of DNA
- (d) All of these

48. One of the following phospholipids possess antigenic activity

- (a) Lecithin
- (b) Cephalin
- (c) Cardiolipin
- (d) Plasmalogens

49. Cyclodextrin is used as

- (a) Complexing agent
- (b) Solubilizing agent

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- (c) Odour masking agent
- (d) All of these

50. Supreme Commander of all defense forces is

- (a) President
- (b) Air Fick! Marshal
- (c) Chief of Army staff
- (d) Chief of Naval staff



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