

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - –Medicinal Chemistry III

Course Code - BP601T

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Answer all the questions. Each question carry one mark.

9. 1.Lipophilicity of Tetracycline increases by esterification of – OH group at position

Mark only one oval.

- C – 5
- C – 10
- C – 6
- C – 12

10. 2.All of the following antibiotics bind to the 50S subunit of the ribosome thereby inhibiting proteinsynthesis EXCEPT

Mark only one oval.

- Chloramphenicol
- Erythromycin
- Linezolid
- Doxycycline

11. 3.An electron withdrawing substituent on the alpha carbon of side chain of Penicillin provides

Mark only one oval.

- beta lactamase resistance
- acid resistance
- Penicillinase resistance
- both (a) and (b)

12. 4.The cephalosporin with the highest activity against gram positive cocci is

Mark only one oval.

- Cefaclor
- Cephalothin
- Cefuroxime
- Cefepime

13. 5.Aminoglycosides

Mark only one oval.

- Have a β lactam ring
- Can produce neuromuscular blockade
- Are DNA gyrase inhibitors
- Normally reach high CSF concentrations

14. 6.Which of the following is a second generation cephalosporin?

Mark only one oval.

- Cefaclor
- Ceftazidime
- Cephalexin
- Cefotaxime

15. 7.Benzyl penicillin is also known as

Mark only one oval.

- Penicillin - G
- Penicillin - V
- Penicillin - F
- Penicillin - K.

16. 8. Penicillins act by

Mark only one oval.

- inhibiting cell wall synthesis
- inhibiting protein synthesis
- binding with nucleic acids
- inhibiting folic acid synthesis

17. 9. In cephalosporins, higher resistance to hydrolysis by β -lactamases is shown when

Mark only one oval.

- The amino group is acylated
- Replacement of sulphur with oxygen
- Oxidation of ring sulphur to sulfoxide or sulphone
- Introduction of C-7 α -methoxy group

18. 10. Demeclocycline differs from chlortetracycline only by

Mark only one oval.

- absence of - CH₃ group on carbon 6
- presence of - OH group on carbon 6
- absence of - OH group on carbon 3
- absence of - N (CH₃)₂ group on carbon 4

19. 11, Which semi synthetic penicillin is active against penicillinase?

Mark only one oval.

- ampicillin
- cloxacillin
- amoxicillin
- penicillin V

20. 12, Which semi synthetic penicillin is bactericidal in nature?

Mark only one oval.

- oxacillin
- cloxacillin
- amoxicillin
- penicillin V

21. 13, What is the full form of 6-APA?

Mark only one oval.

- 6-amino penicillanic-acid
- 6-amino penicilloic-acid
- 6-amino penicillanic-anhydride
- 6-aceto penicillanic-acid

22. 14. Central six member ring of dihydrostreptomycin called

Mark only one oval.

- 2-deoxy streptamine
- streptidine
- streptose
- streptamine

23. 15. Tetracyclines are characterized by

Mark only one oval.

- decahydronaphthacenes skeleton
- heptahydronaphthacenes skeleton
- tetrahydronaphthacenes skeleton
- octahydronaphthacenes skeleton

24. 16. Chloroquine act by inhibiting following enzyme

Mark only one oval.

- DNA and RNA polymerase
- DNA gyrase
- Dihydro folate reductase
- DNA

25. 17.Amodiaquine lminoquinone is _____ product of amodiaquin.

Mark only one oval.

- Oxidized
- Reduced
- Alkylating
- None of these

26. 18.Clindamycin

Mark only one oval.

- Inhibits bacterial cell wall synthesis
- Is often used for prophylaxis of endocarditis in patients with Valvular disease who are undergoing dental procedures
- Penetrates through BBB into CSF well
- Works well against enterococci and gram negative aerobic organisms

27. 19.Which of the following is an ester?

Mark only one oval.

- aspirin
- methadone
- methoxyflurane
- adrenaline

28. 20.Chloramphenicol is obtained from

Mark only one oval.

- Streptomyces capreolus
- Streptomyces venezulae
- Streptomyces orchidaceus
- Streptomyces griseus

29. 21.Primaquine is a derivative of

Mark only one oval.

- 4-aminoquinoline
- 8-aminoquinoline
- 2, 4-diaminopyrimidine
- 8-hydroxyquinoline

30. 22."Endoperoxide bridge" is the important chemical characteristic of

Mark only one oval.

- Quinine
- Quinidine
- Halofantrine
- Artemether

31. 23.The structure of biguanides contain

Mark only one oval.

- 6 nitrogen atoms
- 5 nitrogen atoms
- 3 nitrogen atoms
- 7 nitrogen atoms

32. 24.Sugars are linked to the central moiety of macrolides by

Mark only one oval.

- C- glycosidic bond
- O- glycosidic bond
- N- glycosidic bond
- S- glycosidic bond

33. 25.In acid degradation of erythromycin the first obtained intermediate is

Mark only one oval.

- Spiroketal
- Hemiketal
- Desosamine
- Cladinose

34. 26.Modification at the primary alcoholic group on C-1 atom of Chloramphenicol results in

Mark only one oval.

- Increase in activity
- decrease in activity
- No change in activity
- Abolishing activity

35. 27.Ethambutol is used to treat

Mark only one oval.

- hypertension
- tuberculosis
- poisoning
- HIV

36. 28.PAS is

Mark only one oval.

- Para-amino-sulfuric acid
- Para-amino-sorbitol
- Para-amino-salicylic acid
- Para-amino-sufonamide

37. 29. Which isomer of chloroquine is more toxic?

Mark only one oval.

- D-isomer
- L-isomer
- both are equally toxic
- both are non-toxic

38. 30. Artemether is used in

Mark only one oval.

- Glaucoma
- Tuberculosis
- malaria
- dysentery

39. 31. Kaposi's Sarcoma is associated with

Mark only one oval.

- Diabetes
- AIDS
- Tuberculosis
- Ulcer

40. 32.Regarding resistance to antibiotics

Mark only one oval.

- Penicillinases cannot inactivate cephalosporins
- Macrolides can be inactivated by transferases
- Mutation of aminoglycoside binding site is its main mechanism of resistance
- Tetracycline resistance is a marker for multidrug resistance

41. 33.Influenza causing virus is

Mark only one oval.

- Herpes virus
- Orthomyxovirus
- Retrovirus
- Adenovirus

42. 34.Ciprofloxacin

Mark only one oval.

- Is a defluorinated analogue of nalidixic acid
- Inhibits topoisomerases 2 and 3
- Has no gram positive cover
- Has bioavailability of 30%

43. 35.Regarding antivirals

Mark only one oval.

- Delvindine is a nucleoside reverse transcriptase inhibitor (NRTI)
- Zidovudine (AZT) is a non nucleoside reverse transcriptase inhibitor (NNRTI)
- NRTIs activate HIV-1 reverse transcriptase
- NRTIs require intracytoplasmic activation to the triphosphate form

44. 36.Which of the following moieties are present in the structure of acyclovir ?

Mark only one oval.

- Adenine
- Cytosine
- Guanine
- Thymine

45. 37.Amantadine is used as

Mark only one oval.

- anti-viral drug
- anthelmintic drug
- antiprotozoal drug
- antibacterial drug.

46. 38.The antiviral drug with no heterocyclic ring system is

Mark only one oval.

- Nelfinavir
- Loviride
- Troviridine
- Zidovudine

47. 39.Which of the following is not a 4-amino quinoline

Mark only one oval.

- Amodiaquine
- Mefloquine
- Primaquine
- Chloroquine

48. 40.Zalcitabine is an analog of

Mark only one oval.

- cytosine
- guanine
- uracil
- adenine

49. 41, Which antibiotic is used against both TB and leprosy?

Mark only one oval.

- ampicillin
- cloxacillin
- amoxicillin
- rifampicin

50. 42, Major metabolite of Isoniazid is

Mark only one oval.

- N-acetyl Nicotinamide
- N-acetyl isoniazid
- N-methyl isoniazid
- N-methyl Nicotinamide

51. 43. Fluoroquinolones contains F substituent at

Mark only one oval.

- C-3
- C-4
- C-5
- C-6

52. 44.Ciprofloxacin is which type of drug?

Mark only one oval.

- Antifungal antibiotics
- Anti-tubercular antibiotics
- . Quinolines
- Quinolone Antibacterials

53. 45.Nalidixic acid is used in

Mark only one oval.

- urinary tract infection
- Malaria
- Fungal infection
- none

54. 46.Tuberculous meningitis involves

Mark only one oval.

- respiratory system
- nervous system
- GI tract
- none

55. 47. Amikacin is a

Mark only one oval.

- semisynthetic aminoglycoside
- synthetic aminoglycoside
- natural aminoglycoside
- none

56. 48. Example of HIV protease inhibitors

Mark only one oval.

- Abacavir
- Ritonavir
- Aciclovir
- Ganciclovir

57. 49. Idoxuridine is

Mark only one oval.

- RT inhibitors
- DNA polymerase inhibitor
- none
- both

58. 50.Malaria is caused by

Mark only one oval.

- Bacteria
- Virus
- Protozoa
- All of these

59. 51.Cycloguanil acts by

Mark only one oval.

- 30 S ribosomal inhibition
- dihydrofolate reductase inhibition
- 50 S ribosomal inhibition
- Protein synthesis inhibition

60. 52.Sulfonamides are metabolized by humans principally by

Mark only one oval.

- Acetylation
- Deamination
- Oxidation
- Conjugation

61. 53.Which is/are the major side effect of sulfonamide?

Mark only one oval.

- Crystalurea
- Peripheral neuritis
- Kernictus
- All of the above

62. 54.Which is the basic ring present in sulfadiazine?

Mark only one oval.

- Pyridine
- Pyrimidine
- Pyridazine
- Piperidine

63. 55.Chemically Albendazole is

Mark only one oval.

- Indole derivative
- Benzimidazole derivative
- Quinoline derivative
- Carbazole derivative

64. 56.Regarding the “azole” group of antifungals

Mark only one oval.

- Fluconazole has low water solubility
- Ketoconazole may be given IV/PO
- Itraconazole undergoes renal elimination
- They work by reduction of ergosterol synthesis by inhibition of fungal cytochrome P450 enzymes

65. 57.Example of an anthelmintic drug

Mark only one oval.

- Flucloxacillin
- Mebendazole
- Rifampicin
- Cephalothin

66. 58.All of the following are true regarding metronidazole EXCEPT

Mark only one oval.

- It is used to treat giardia
- It causes a metallic taste in the mouth
- It inhibits alcohol dehydrogenase
- It is used to treat gardnerella

67. 59. Albendazole contains which of the following

Mark only one oval.

- Imidazole
- Fural
- Thazolidine
- Benzimidazol

68. 60. Natural anthelmintic agent is

Mark only one oval.

- Avermectin
- Metrifonate
- Levamisole
- Niridazole

69. 61. In vivo, prontosil is converted to

Mark only one oval.

- Sulphanilamide
- Sulphacetamide
- Sulphadiazine
- Sulphathiazole

70. 62.The chemical name of sulphadiazine is

Mark only one oval.

- N 1 -2-pyrimidinylsulphanilamide
- N 1 -5-methyl-3-isooxazolylsulphanilamide
- N 1 -2-pyridylsulphanilamide
- N 1 -acetylsulphanilamide.

71. 63.Antifungal polyene macrolide that preferentially binds to fungal ergosterol which alters cellular permeability.

Mark only one oval.

- amphotericin B
- ketoconazole
- flucytosine
- griseofulvin

72. 64,Which class of antifungal drugs work by inhibiting squalene epoxidase?

Mark only one oval.

- Echinocandins
- Polyenes
- Allylamines
- None of them

73. 65.The process by which DNA is copied to produce two daughter DNA molecules is...

Mark only one oval.

- translation
- transcription
- reproduction
- replication

74. 66.What term is used to signify a preparation that appears identical to the preparation of an active drug but which has no biological activity?

Mark only one oval.

- Dummy drug
- Peptidomimetic
- Placebo
- Gazebo

75. 67.Which of the following descriptions most accurately describes binding sites and binding regions?

Mark only one oval.

- a binding site is part of a binding region
- a binding region is part of a binding site
- a binding region is the same as a binding site
- a binding region is on a drug whereas a binding site is on a macromolecular target

76. 68.What does the symbol P represent in a QSAR equation?

Mark only one oval.

- pH
- plasma concentration
- partition coefficient
- prodrug

77. 69.A measure of the steric properties for a substituent

Mark only one oval.

- Molar refractivity is a steric factor
- Molar refractivity is an electronic factor
- Molar refractivity is a hydrophobic factor
- Molar refractivity is a stereoelectronic factor

78. 70.What software programme is used to determine the Verloop steric parameter?

Mark only one oval.

- Alchemy
- Chem3D
- Sterimol
- ChemDraw

79. 71.Full form of QSAR

Mark only one oval.

- Qualitative structure–activity retention
- Quantitative structure–activity retention
- Qualitative structure–activity relationship
- Quantitative structure–activity relationship

80. 72,Combinatorial chemistry can be useful at various stages of the drug design / development process. Which of the following is such a stage?

Mark only one oval.

- Purifying a lead compound
- Optimising a lead compound
- Structure determination
- Pharmacological testing

81. 73.Chemically Albendazole is

Mark only one oval.

- Indole derivative
- Benzimidazole derivative
- Quinoline derivative
- Carbazole derivative

82. 74.What is meant by ADME in pharmacokinetics?

Mark only one oval.

- Affinity, dosage, marketing, efficacy
- Absorption, distribution, metabolism, excretion
- Agonism, dependence, mobility, efficiency
- Antagonism, deficiency, mean, efflux

83. 75.What is meant by a linker or an anchor?

Mark only one oval.

- bubbleThe bond which links a molecule to a solid support.
- A reactive functional group on the solid support which allows a molecule to be attached to the solid support.
- A molecular unit which is attached to the solid support and which contains a reactive functional group that allows attachment of a starting material
- The functional group on the starting material which is used to attach the molecule to the solid support.

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