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

Course Name - –Pharmaceutical Organic Chemistry III
Course Code - BP401T

* You can submit the form ONLY ONCE.
* Fill the following information for further process.

* Required

1. Email *

2. Name of the Student *

3. Enter Full Student Code *

4. Enter Roll No *

5. Enter Registration No *

6. Enter Course Code *

7. Enter Course Name *

8. *

Mark only one oval.

- Diploma in Pharmacy
- Bachelor of Pharmacy
- B.TECH.(CSE)
- B.TECH.(ECE)
- BCA
- B.SC.(CS)
- B.SC.(BT)
- B.SC.(ANCS)
- B.SC.(HN)
- B.Sc.(MM)
- B.A.(MW)
- BBA
- B.COM
- B.A.(JMC)
- BBA(HM)
- BBA(LLB)
- B.OPTOMETRY
- B.SC.(MB)
- B.SC.(MLT)
- B.SC.(MRIT)
- B.SC.(PA)
- LLB
- B.SC(IT)-AI
- B.SC.(MSJ)
- Bachelor of Physiotherapy
- B.SC.(AM)
- Dip.CSE
- Dip.ECE
- DIP.EE
- DIP.CE

- [ ] DIP.ME
- [ ] PGDHM
- [ ] MBA
- [ ] M.SC.(BT)
- [ ] M.TECH(CSE)
- [ ] LLM
- [ ] M.A.(JMC)
- [ ] M.A.(ENG)
- [ ] M.SC.(MATH)
- [ ] M.SC.(MB)
- [ ] MCA
- [ ] M.SC.(MSJ)
- [ ] M.SC.(AM)
- [ ] M.SC.CS)
- [ ] M.SC.(ANCS)
- [ ] M.SC.(MM)
- [ ] B.A.(Eng)

Answer all the questions. Each question carry one mark.

9. 1. Which among the following defines Meso forms of isomers

Mark only one oval.

- [ ] Meso form is optically inactive due to external compensation
- [ ] The molecules of the meso isomers are chiral
- [ ] It can be separated into optically active enantiometric pairs
- [ ] It is a single compound

10. 2. Which of the following compounds will exhibit cis-trans isomerism?

Mark only one oval.

- 2-butene
- 2-butyne
- 2-butanol
- butanal

11. 3. An isomer of ethanol is:

Mark only one oval.

- methanol
- diethyl ether
- acetone
- dimethyl ether

12. 4. How many optically active stereoisomers are possible for butane-2,3-diol?

Mark only one oval.

- 1
- 2
- 3
- 4

13. 5. How many aromatic isomers of dibromobenzene exist?

Mark only one oval.

- 2
- 3
- 4
- 6

14. 6. Which of the following compounds will be optically active

Mark only one oval.

- Propanoic acid
- 3- chloropropanoic acid
- 2- chloropropanoic acid
- 3-chloropropene

15. 7. The isomers of the substance must have

Mark only one oval.

- same chemical properties
- same molecular weight
- same structural formula
- same functional group

16. 8. Optical isomers that are mirror images are called

Mark only one oval.

- Tautomers
- Diastereomers
- Enantiomers
- Metamers

17. 9. Compounds with the same molecular formula but different structural formulas are called

Mark only one oval.

- Alkoxides
- Iso compounds
- Isomers
- Ortho compounds

18. 10. If different functional groups are present it is termed as

Mark only one oval.

- position isomerism
- functional group isomerism
- chain isomerism
- all of them

19. 11. Types of structural isomerism are

Mark only one oval.

- position isomerism
- functional group isomerism
- chain isomerism
- all of them

20. 12. Only two isomers of monochloro product is possible of

Mark only one oval.

- n-butane
- 2,4-dimethyl pentane
- Benzene
- 1-methyl propane

21. 13. Number of isomers of molecular formula C2H2Br2 are

Mark only one oval.

- 1
- 2
- 3
- 0

22. 14. Which of the following is a not a five membered ring?

Mark only one oval.

- Pyridine
- Pyrrole
- Furan
- Thiophene

23. 15. What is the reactivity order in the following five membered heterocyclic compounds?

Mark only one oval.

- Pyrrole
- Furan
- Thiophene
- Pyridine

24. 16. Pyridine come under which category of heterocycle classification on the basis of chemical behavior?

Mark only one oval.

- excessive heterocycle
- deficient heterocycle
- equivalent heterocycle
- can’t say about the five membered rings

25. 17. The electron of Nitrogen participating in the resonance in pyridine is present in which orbital?

Mark only one oval.

- p-orbital
- sp2-orbital
- sp3-orbital
- sp -orbital

26. 18. Which element is present as hetero atom in pyridine?

Mark only one oval.

- Sulphur
- Nitrogen
- Oxygen
- Sulphur and nitrogen

27. 19. When pyrrole is treated with acetic anhydride then the product formed is -

Mark only one oval.

- 2-Acetyl pyrrole
- 3-Acetyl pyrrole
- 4-Acetyl pyrrole
- 5-Acetyl pyrrole

28. 20. Furan reacts with ammonia in presence of alumina at 400 degree Celsius to give

Mark only one oval.

- Furfural
- Furoic acid
- Pyrrole
- Pyridine

29. 21. Electrophilic substitution in furan usually occurs at:

Mark only one oval.

- the o atom
- the C(2) atom
- both C(2) and C(3) atom
- the C(3) atom

30. 22. Pyrazole react with concentrated Nitric acid to give_____

Mark only one oval.

- 2- Nitropyrazole
- 4- Nitropyrazole
- 5- Nitropyrazole
- 3- Nitropyrazole

31. 23. Imidazole reacts with Hydrogen peroxide to give_____

Mark only one oval.

- Oxamide
- Oxazole
- Oxime
- Oxalic Acid

32. 24. Imidazole is used as a _____

Mark only one oval.

- Antihypertensive
- Diuretic
- Antacid
- Antipyretic

33. 25. Thiazole reacts with Grignard's Reagent to produce_____

Mark only one oval.

- 2-alkyl thiazole
- 4-alkyl thiazole
- 5-alkyl thiazole
- 3-alkyl thiazole

34. 26. Thiazole moiety is a crucial part of_____

Mark only one oval.

- Vitamin A
- Vitamin B2
- Vitamin B1
- Vitamin B12

35. 27. Pyrimidine reacts with sodamide an presence of ammonia to produce_____

Mark only one oval.

- 4-aminopyrimidine
- 5-aminopyrimidine
- 2-aminopyrimidine
- 6-aminopyrimidine

36. 28. Adenine ,Guanine, Caffeine and Uric acid are examples of_____

Mark only one oval.

- Pyrimidine
- Pyrole
- Purine
- Pyridine

37. 29. Clemmensen reduction is used to reduce an aldehyde and ketone to_____

Mark only one oval.

- Alkane
- Alkene
- Cycloalkane
- Alkyne

38. 30. Wolf - Kishner reduction is applicable to reduce _____ compounds.

Mark only one oval.

- High molecular weight compound
- Acid sensitive compound
- Both High molecular weight compound and Acid sensitive compound
- None of them

39. 31. Choose the incorrect option regarding Isomerism

Mark only one oval.

- They differ in both physical and chemical properties
- They have the different molecular formula
- There are two types of Isomerism : Structural and Stereo Isomerism
- Geometric and optical isomerism are two types of Stereo Isomerism

40. 32. The isomers which can be inter converted through rotation around a single bond are:

Mark only one oval.

- conformers
- diastereomers
- enantiomers
- positional isomers

41. 33. Identify the chiral molecule among the following:

Mark only one oval.

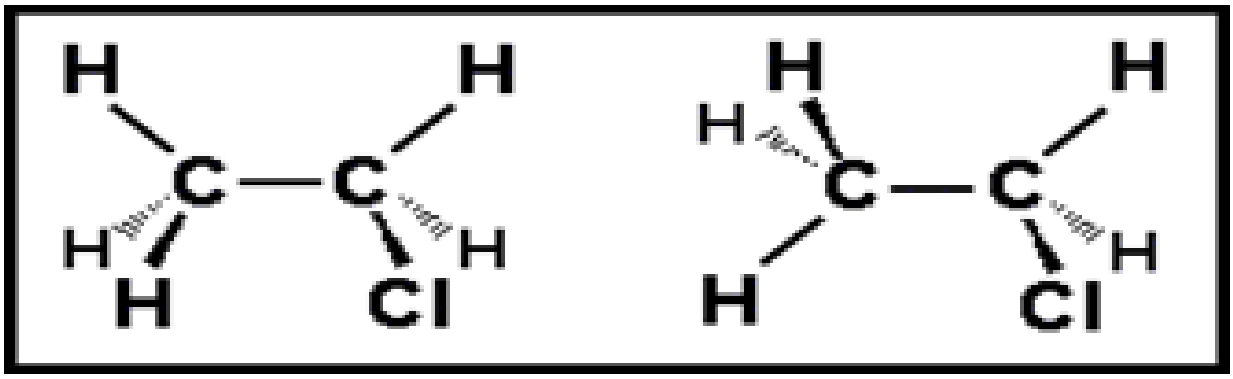
- Isopropyl alcohol
- 2-pentanol
- 1-bromo 3-butene
- Isobutyl alcohol

42. 34. Isomerism that arises out of the difference in spatial arrangement of atoms or groups about the doubly bonded carbon atoms are called?

Mark only one oval.

- Structural Isomerism
- Stereo Isomerism
- Geometrical Isomerism
- Optical Isomerism

43. 35. What is the relationship between the structures shown?



Mark only one oval.

- structural isomers
- geometric isomers
- conformational structures
- optical isomer

44. 36. How many optical isomers are possible for lactic acid

Mark only one oval.

- 2
- 4
- 6
- 8

45. 37. Optical isomerism is shown by

Mark only one oval.

- n-Butyl chloride
- sec-Butyl chloride
- tert-Butyl chloride
- Isobutyl chloride

46. 38. Plane polarized light is affected by

Mark only one oval.

- Identical molecules
- All polemers
- Chiral molecule
- All biomolecules

47. 39. Optical isomerism is shown by

Mark only one oval.

- n-Butyl chloride
- sec- Butyl chloride
- tert-Butyl chloride
- Isobutyl chloride

48. 40. Which of the following compounds may exist as cis trans isomers

Mark only one oval.

- 1-Butene
- 2-Butene
- Cyclopropane
- Acetone

49. 41. Geometric isomerism is shown by

Mark only one oval.

- Lactic acid
- Maleic acid
- 1-Butene
- 1,1-Dichloroethylene

50. 42. The isomer of diethyl ether is

Mark only one oval.

- (CH3)2CHOH
- (CH3)3C−OH
- C3H7OH
- (C2H5)2CHOH

51. 43. Isomers have essentially identical

Mark only one oval.

- Structural formula
- Chemical properties
- Molecular formula
- Physical properties

52. 44. Which one of the following is an optically active compound

Mark only one oval.

- n-propanol
- 2-chlorobutane
- n-butanol
- 4-hydroxyheptane

53. 45. Which of the following is not true about the five membered rings?

Mark only one oval.

- Five membered rings are more stable than 4 membered rings
- Five membered rings are more stable than 6 membered rings
- Five membered rings are more stable than 7 membered rings
- Five membered rings are more stable than 8 membered rings

54. 46. Which of the following five membered rings is most resonance stabilized?

Mark only one oval.

- Furan
- Thiophene
- Pyrrole
- Pyridine

55. 47. How many number of resonating structure stabilises a pyridine molecule?

Mark only one oval.

- 4
- 5
- 6
- 7

56. 48. Which of the following heterocyclic compounds is not aromatic?

Mark only one oval.

- Pyrrole
- Furan
- Thiophene
- Pyrrolidine

57. 49. The N-atom in Pyrrole is----

Mark only one oval.

- Sp3 hybridized
- Sp2 hybridized
- Sp hybridized
- None of these

58. 50. Which of the following is more aromatic-

Mark only one oval.

- Pyrrole
- Furan
- Thiophene
- Pyrrolidine

59. 51. Which of the following reagent will react with furan to form 2-furansulfonic acid-

Mark only one oval.

- SO3 in pyridine at 100 degree Celsius
- SO2 at 100 degree Celsius
- Dilute H2SO4 at 100 degree Celsius
- Dilute H2SO4 at 200 degree Celsius

60. 52. Pyrrole is an extremly_____

Mark only one oval.

- Strong Acid
- Weak Base
- Weak Acid
- Strong Base

61. 53. Pyrazole react with Fuming Sulphuric acid to give_____

Mark only one oval.

- Pyrazole-2-sulphonic acid
- Pyrazole-5-sulphonic acid
- Pyrazole-3-sulphonic acid
- Pyrazole-4-sulphonic acid

62. 54. Imidazole reacts with Bromine to give_____

Mark only one oval.

- 4-tribromo imidazole
- 2,4,5-tribromo imidazole
- 2-tribromo imidazole
- None of them

63. 55. Thiazole react with Sodamide to produce_____

Mark only one oval.

- 2-amino thiazole
- 4-amino thiazole
- 5-amino thiazole
- None of them

64. 56. Oxazole is a _____

Mark only one oval.

- Very strong acid
- Very strong base
- Very weak base
- Very weak acid

65. 57. Pyridine react with ammonia and ethanol to produce_____

Mark only one oval.

- 1,3-diaminopyridine
- 2,4-dihydropyridine
- 1,4-dihydropyridine
- 1,4-dimethylpyridine

66. 58. Pyridine react with LiAlH4 to produce_____

Mark only one oval.

- 1,2-dihydropyridine
- 2,4-dihydropyridine
- 1,4-dihydropyridine
- None of them

67. 59. All carbon atom in Quinoline are

Mark only one oval.

- sp2 hybridized
- sp hybridized
- sp3 hybridized
- sp4 hybridized

68. 60. Quinoline react with Pt and hydrogen in presence of acetic acid to produce_____

Mark only one oval.

- Decahydroquinoline
- 1,2,3,4,- tetrahydroquinoline
- 1,2- dihydroquinoline
- 2-hydroquinoline

69. 61. Quinoline undergo bromination above 500 degree C to produce

Mark only one oval.

- 2-bromoquinoline
- 8-bromoquinoline
- 6-bromoquinoline
- 5-bromoquinoline

70. 62. Quinine is widely used as_____

Mark only one oval.

- Antipyretic Drug
- Antimalarial drug
- Antihypertensive Drug
- Antitubercular Drug

71. 63. Isoquinoline reacts with sodamide in presence of ammonia to produce_____

Mark only one oval.

- 1-aminoisoquinoline
- 4-aminoisoquinoline
- 6-aminoisoquinoline
- 8-aminoisoquinoline

72. 64. Isoquinoline reacts with Hydrochloric acid in presence of tin to produce_____

Mark only one oval.

- 1,2,3,4-tetrahydro isoquiniline
- 4-chloroisoquinoline
- 6-chloroisoquinoline
- 8-chloroisoquinoline

73. 65. Acridine undergo nitration reaction with Conc. HNO3 to produce _____

Mark only one oval.

- 2,4 -Dinitroacridine
- 4,6- Dinitroacridine
- 2,8-Dinitroacridine
- 4,8- Dinitroacridine

74. 66. Indole ring is formed by_____

Mark only one oval.

- Benzene and pyyrole
- Benzene and Pyridine
- Pyrrole&Acridine
- Pyrrole& Pyridine

75. 67. Indole react with sulfuryl chloride to produce _____

Mark only one oval.

- 2- chloroindole
- 3- chloroindole
- 4- chloroindole
- 5- chloroindole

76. 68. The number of tautomers of Pyrazole is_____

Mark only one oval.

- Three
- Two
- Four
- Six

77. 69. _____ used as a reducing agent in clemmensen reduction

Mark only one oval.

- H2SO4
- Ammonia
- Hydrazine
- Amalgameted Zinc & HCl

78. 70. Clemmensen reduction is always done for base sensitive _____.

Mark only one oval.

- Ketone Compound
- Methylene Conpound
- Carbonyl Compound
- Acetylene Compound

79. 71. Cyclohexanone react with amalgameted zinc with HCL to produce _____

Mark only one oval.

- Cycloalkane
- Benzene
- O-Cresol
- Cycloalkene

80. 72. N-Heptane is prepared when _____ react with Hg-Zn in presence of HCl.

Mark only one oval.

- O-Cresol
- n-Haptaldehyde
- Cycloalkane
- Benzene

81. 73. In Oppenauer oxidation _____ alcohol are oxidised much faster.

Mark only one oval.

- Secondary
- Primary
- Tertiary
- Quaternary

82. 74. Which chemical used as a solvent in Brich reduction?

Mark only one oval.

- H2SO4
- Water
- Liquid Amonia
- HCl

83. 75. Dakin reaction involvs the replacement of the aldehyde group by _____

Mark only one oval.

- Acid group
- Keton group
- Hydroxyl group
- Methyl group