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

Course Name - - Chemistry Course Code - BSC(CSE)202

- * 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.A.(JMC)
- BBA(HM)
- BBA(LLB)
- B.OPTOMETRY
- B.SC.(MB)
- B.SC.(MLT)
- B.SC.(MRIT)
- B.SC.(PA)
- LLB
- <u>B.SC</u>(IT)-AI
- B.SC.(MSJ)
- Bachelor of Physiotherapy
- B.SC.(AM)
- Dip.CSE
- Dip.ECE

DIP.EE

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. What is the term related the energy required to remove an electron from an isolated gaseous atom in its ground state to produce a unipositive ion in its ground state ? *

- Electron affinity
- lonization energy
- Electronegativity
- Bond energy

10. 2. Which form is most stable form of n butane *

Mark only one oval.

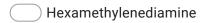
Gauche Eclipsed Partially eclipsed

- Staggered
- 11. 3. What is the axis of symmetry present in water molecule? *

Mark only one oval.

- C2 C3 C4 C6
- 12. 4. What is formed by reaction of ammonia with formaldehyde? *

Mark only one oval.

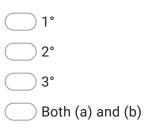


Adipic acid

- Urotrophine
- Aldol

13. 5. E1 reaction is best shown by.....alkyl halide *

Mark only one oval.



14. 6. SN1 reaction proceeds through the formation of *

Mark only one oval.

- Carbon radicals Carbocation Carbanion Carbane
- 15. 7. Cannizaro reaction is shown by the compound having how many alpha hydrogen *

- 0
- 2
- 3

16. 8. A tree in a garden is an example of which of the thermodynamic system ? *

Mark only one oval.

📃 Open system

- Closed system
- Isolated system
- Bomogenous system
- 17. 9. Which of the following is maintained a closed system?*

Mark only one oval.

- A walking man
- Hydrogen gas filled in a baloon
- A cup of tea
- A pond
- 18. 10. In an isothermal expansion of an ideal gas *



- _____ΔT=0

19. 11. 100g of ice at 0 °C was melted to 100g of water at 0 °C. Given latent heat of fusion of ice at 0 °C is 80 Cal per g. The ΔU of the process is *

Mark only one oval.

- _____ 1000 Cal
- ____ 2000 Cal
- _____ 4000 Cal
- 🔵 8000 Cal
- 20. 12. For the reaction 2SO2(g)+O2(g)=2SO3(g) *

Mark only one oval.

- ΔΗ>ΔU
- ΔΗ=ΔU
- _____ΔΗ<ΔU
- _____ΔH=1/ΔU
- 21. 13. In a reversible cyclic process the entropy change is *

- PositiveZeroNegative
- Unpredictable

22. 14. In a reversible cyclic process the internal energy _____Which of the following holds right ? *

Mark only one oval.

- Remains unchanged
- Increases
- Decreases
- Can not be predicted
- 23. 15. For a spontaneous process, *

Mark only one oval.



24. 16. The relation between ΔG of the cell reaction and emf E of the cell is given by *

- ____∆G=-nFE
- ____∆G=nFE
- ____∆G=FE/n
- ____∆G=n/FE

25. 17. Standard hydrogen electrode has been assigned to a potential of *

Mark only one oval.

- _____ 1.5 Volt
- 1.0 Volt
- 0.5 Volt
- 0 Volt
- 26. 18. A galvanic cell is used for the conversion of *

Mark only one oval.

- Chemical energy to heat energy
- Chemical energy to electrical energy
- Electrical energy to chemical energy
- Heat energy to chemical energy
- 27. 19.Which one is true for a galvanic cell? *

- The cell potential is always positive
- The cell potential is always negative
- \bigcirc Δ G for the cell reaction is positive
- \bigcirc Δ G for the cell reaction is zero

28. 20.*

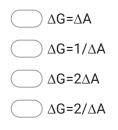
In normal hydrogen electrode the activity of H⁺ ion is

Mark only one oval.

- 0.2
- 2.0
- 0.1
- 1.0
- 29. 21. The entropy of the universe is *

Mark only one oval.

- Decreasing
 Increasing
 Constant
 Dependent on conditions
- 30. 22. For an ideal gas undergoing isothermal reversible expansion which of the following is true *



31. 23. The stereoisomers which rotates the plain polarized light towards right is known as *

Mark only one oval.

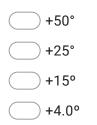


32. 24. Light having a single wavelength and whose electronic vector vibrate in a plane perpendicular to the propagation of light is called *

Mark only one oval.

\bigcirc	Monochromatic	light
\frown		

- ____ Plain polarized light
- Ordinary light
- Non-polarized light
- 33. 25. If a solution of a compound (30.0 g/100 mL of solution) has a measured rotation of +15° in a 2 dm tube, the specific rotation is: *



34. 26. According to the second law of thermodynamics which of the following quantities represent the change in a state function (q=heat change)? *

Mark only one oval.

Grew	<u>Grev/T</u>
Option 1	Option 2
Tarex	T/g _{rex}
Option 3	Option 4

35. 27. In case of a amino acids which chiral carbon is taken to assign D,L nomenclature *

1st
2nd
Last
All of these

36. 28. Which is the least stable form of n-butane *

Mark only one oval.

Eclipsed

- Staggered
- Partially eclipsed

📃 Gauche

37. 29. In flying wedge projection formulae, horizontal bonds are projected*

Mark only one oval.

- Above the plane of the paper
- Below the plane of the paper
- On the plane of the paper
- 🔵 Both a and b
- 30. In case of Newman projection formulae, the C atom facing the viewer is represented by *

- Circumference of circle
- Centre of Circle
- Both a and b
- Square

39. 31. Non superimposable mirror images are known as *

Mark only one oval.

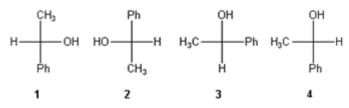
Enantiomers

- Optical isomers
- Isomers
- 40. 32. Cis 2-butene and trans 2-Butene are *

Mark only one oval.

- Configurational isomers
- Diasteroisomers
- 🔵 Both a and b
- Conformational isomers

41. 33.*



- ____1
- <u>2</u>
- \frown
- 3

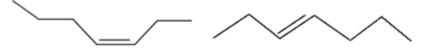
42. 34. 1-butene on ozonolysis produces *

Mark only one oval.

Formaldehyde only

- Propanal only
- Both Formaldehyde and propanal
- Acetone only
- 43. 35. Which reacts with Grignard reagent to produce 1° alcohol? *

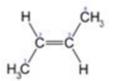
- Methanal
 Acetaldehyde
 Propanal
 Acetone
- 44. 36. Which of the following terms best describes the following pair of molecules? *



Mark only one oval.

- lsomers
- Configurational isomers
- Constitutional isomers
- Geometrical isomers

45. 37. Assign configuration to the given compound *



Mark only one oval.

- Z configuration
- E configuration
- R configuration
- S configuration
- 46. 38.*

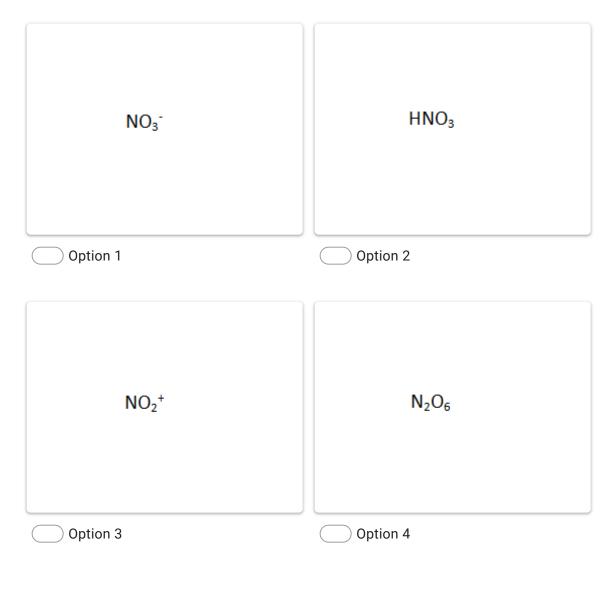
What is the major product of the reaction between $CH_3-CH_2-CH(NMe_3)$ -CH₃ with NaOH ?

Mark only one oval.

1-butene2-buteneEthylenePropene

47. 39. In nitration the electrophile is *

Mark only one oval.



48. 40. lodination reaction is *

Mark only one oval.

Reversible
 Irreversible
 Reversible at high temperature only
 Reversible at low temperature only

49. 41. Electrophilic substitution of toluene occurs at position *

Mark only one oval.

Or	tho only
O Pa	ra only
	eta
Во	th ortho and para

50. 42. -OH group in spectroscopy is referred as *

Mark only one oval.

- Auxochrome
- Chromophore
- Red shift
- Blue shift
- 51. 43. The most non-metallic element among the following is: *

Mark only one oval.



52. 44. The probability density is the *

Mark only one oval.

- Square root of the wave function
- Absolute value of the wave function
- Inverse of the wave function
- Absolute square of the wave function
- 53. 45. Magnetic moment of a transition metal can be calculated from *

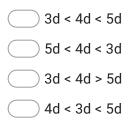
Mark only one oval.

- Number of paired electrons
- Number of valence electrons
- Number of total electrons
- Number of unpaired electrons
- 54. 46. The angular momentum of an electron of mass m moving in a circular orbit of radius r and velocity v is *

- \bigcirc mvr>nh/2 π
- \bigcirc mv = h/2 π
- \bigcirc mvr = nh/2 π
- \bigcirc mvr<nh/2 π

55. 47. Which is the correct trend of the change of Δo ? *

Mark only one oval.



56. 48. Electrons should be filled in energy sub shells in order of increasing energy values, is the principle of *

Mark only one oval.

\square	Aufbau
\square) Pauling's

- Pauli's exclusion
- 🔵 Hund's
- 57. 49. Bohr theory was not able to explain *

Mark only one oval.



📃 Li ions

- Multielectron systems
- Hydrogen atom

58. 50.The time independent form of Scrodinger equation $\hat{H} \psi = E \psi$, $\hat{H} = *$

Mark only one oval.

Hamiltonian operator

- Laplacian operator
- Eigen function
- Hamiltonian function
- 59. 51. Which of the following notations is not used to distinguish between pairs of enantiomers? *

Mark only one oval.

- R and S
- E and Z
- +and -
- 🔵 D and L
- 60. 52. Conformations are different arrangements of atoms that can be converted into one another by rotation about *

- Covalent bond
- Double bond
- Single bond
- Triple bond

61. 53. What type of reaction takes place upon treatment of a ketone with HCN to form a cyanohydrin? *

Mark only one oval.

Nucleophilic addition

- Electrophilic substitution
- Nucleophilic substitution
- Electrophilic addition
- 62. 54. The shift of absorption maxima towards higher wavelength is called *

Mark only one oval.

() Blue shift
\square	Red shift
\square	Auxochrome
\square	Chromophore

63. 55. Cis stilbene has lower wavelength than trans stilbene due to *

- Presence of steric repulsion between two benzene rings in cis stilbene
- Presence of steric repulsion between two H atoms in cis stilbene
- Presence of steric repulsion between two benzene rings in trans stilbene
 - Presence of steric repulsion between two H atoms in trans stilbene

64. 56. Ozonolysis of Ethylene produces *

Mark only one oval.

Formaldehyde

Acetaldehyde

🔵 Butanal

- Acetone
- 65. 57. Electrophile are *

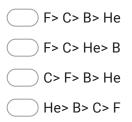
Mark only one oval.

- Electron deficient species
- Electron rich species
- Either electron deficient or electron rich depending on temperature
- Vacant electrons
- 66. 58. Which statement is not true for wave function, ψ ? *

- Must be single-valued
- Must be continuous
- Must be infinite
- Must be normalized

67. 59. The decreasing order of atomic numbers of the atoms He, C, F, B is *

Mark only one oval.



68. 60. To calculate screening constatnt (S) the following rule is used *

Mark only one oval.



This content is neither created nor endorsed by Google.

