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

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

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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
<u>DIP.EE</u>
DIPCE

9.

	DIDME
	DIP.ME  DODANA
	PGDHM
	MBA (DT)
	M.SC.(BT)
	M.TECH(CSE)
	LLM
	M.A.(JMC)
	M.A.(ENG)
	M.SC.(MATH)
	M.SC.(MB)
	M.SC.(MSJ)
	M.SC.(AM)
	M.SC.CS)
	M.SC.(ANCS)
	M.SC.(MM)
	B.A.(Eng)
Α	nswer all the questions. Each question carry one mark.
•	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?
	Mark only one oval.
	Electron affinity
	Electronegativity
	Onization energy
	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.		
12.	4. What is formed by reaction of ammonia with formaldehyde?  Mark only one oval.  Hexamethylenediamine  Adipic acid		
	Urotrophine Aldol		

13.	5. E1 reaction is best shown by degree alkyl halide
	Mark only one oval.
	1
	2
	3
	4
14.	6. SN1 reaction proceeds through the formation of
	Mark only one oval.
	Carbon radicals
	Carbanion
	Carbocation
	Carbene
15.	7. Cannizaro reaction is shown by the compound having how many alpha hydrogen
	Mark only one oval.
	O
	1
	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
	Homogenous 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
	Mark only one oval.
	ΔS=0
	ΔV=0
	$\triangle q=0$
	$\Delta T=0$

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 $\Delta U$ 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
	$\triangle H = \Delta U$
	ΔΗ<ΔU
	$\Delta H=1/\Delta U$
21.	13. In a reversible cyclic process the entropy change is
	Mark only one oval.
	Positive
	Negative
	Zero
	None of these

22.	14. In a reversible cyclic process the internal energyWhich of the following holds right ?
	Mark only one oval.
	Increases
	Decreases
	Remains unchanged
	Can not be predicted
23.	15. For a spontaneous process,
	Mark only one oval.
	ΔGT,P=0
	ΔGT,P>0
	ΔGT,P<0
	ΔAV,T=0
24.	16. The relation between $\Delta G$ of the cell reaction and emf E of the cell is given by
	Mark only one oval.
	$\triangle$ G=nFE
	$\Delta$ G=FE/n
	$\Delta$ G=-nFE
	$\triangle$ 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
	O Volt
	0.5 Volt
26.	18. A galvanic cell is used for the conversion of
	Mark only one oval.
	Chemical energy to heat energy
	Electrical energy to chemical energy
	Chemical energy to electrical energy
	Heat energy to chemical energy
27.	19. Which one is true for a galvanic cell?
	Mark only one oval.
	The cell potential is always negative
	$\triangle$ G for the cell reaction is positive
	The cell potential is always positive
	$\triangle$ G for the cell reaction is zero

28.	20. In normal hydrogen electrode the activity of H+ ion is
	Mark only one oval.
	2.0
	1.0
	0.1
29.	21. The entropy of the universe is
	Mark only one oval.
	Decreasing
	Constant
	Increasing
	Dependent on conditions
30.	22. For an ideal gas undergoing isothermal reversible expansion which of the following is true
	Mark only one oval.
	$\triangle$ G=1/ $\triangle$ A
	$\triangle$ G=2 $\triangle$ A
	$\bigcirc$ $\triangle G = \triangle A$
	$\bigcirc$ $\triangle G=2/\triangle A$

31.	23. The stereoisomers which rotates the plain polarized light towards right is known as
	Mark only one oval.
	$\bigcirc$ R
	D .
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.
	Monochromatic light
	Ordinary light
	Plain polarized 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:
	Mark only one oval.
	+50°
	+15°
	+25°
	+4.0°

34.	26. Let there be four substituents namely COOH, D, H and CONH2 attached to the chiral carbon , which one will have highest priority sequence
	Mark only one oval.
	$\bigcirc$ D
	Н
	С00Н
	CONH2
35.	27. In case of α amino acids which chiral carbon is taken to assign D,L nomenclature
	Mark only one oval.
	First
	Second
	Last
	All of these
36.	28. Which is the least stable form of n-butane
	Mark only one oval.
	Eclipsed
	Staggered
	Partially eclipsed
	Gauche

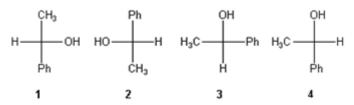
37.	29. In flying wedge projection formulae, horizontal bonds are projected
	Mark only one oval.
	Above the plane of the paper  Below the plane of the paper
	On the plane of the paper
	Both above and below plane of the paper
38.	30. In case of Newman projection formulae, the C atom facing the viewer is represented by
	Mark only one oval.
	Circumference of circle
	Centre of Circle
	Both a and b
	Square
39.	31. Non superimposable mirror images are known as
	Mark only one oval.
	Diasteromers
	Optical isomers
	Enantiomers
	Isomers

40. 32. Cis 2-butene and trans 2-Butene are

Mark only one oval.

- Configurational isomers
- Diasteroisomers
- Both Configurational isomers and Diasteroisomers
- Conformational isomers

41. 33. Which of the following Fischer projection is different from the others>



Mark only one oval.

- 3

42. 34. 1-butene on ozonolysis produces

Mark only one oval.

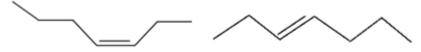
- Formaldehyde only
- propanal only
- Both Formaldehyde and propanal
- Acetone only

43. 35. Which reacts with Grignard reagent to produce 1° alcohol?

Mark only one oval.

- \_\_\_\_ Acetaldehyde
- Propanal
- Methanal
- Acetone

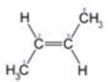
44. 36. Which of the following terms best describes the following pair of molecules?



Mark only one oval.

- Isomers
- Configurational isomers
- Geometrical isomers
- Constitutional isomers

45. 37. Assign configuration to the given compound



Mark only one oval.

- Z configuration
- R configuration
- E configuration
- S configuration

46. 38.

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

	Mark only one oval.
	2-butene
	Ethylene
	1-butene
	Propene
47.	39. lodination reaction is
	Mark only one oval.
	Reversible
	Irreversible
	Reversible at high temperature only
	Reversible at low temperature only
40	
48.	40. Electrophilic substitution of toluene occurs at position
	Mark only one oval.
	Ortho only
	Para only
	Both ortho and para
	Meta

49.	41OH group in spectroscopy is referred as
	Mark only one oval.
	Chromophore  Red shift  Auxochrome
	Blue shift
50.	42. The most non-metallic element among the following is:
	Mark only one oval.
	Be Mg B  AI
51.	43. The probability density is the
	Mark only one oval.
	Square root of the wave function  Absolute value of the wave function  Absolute square of the wave function  Inverse of the wave function

52.	44. Magnetic moment of a transition metal can be calculated from
	Mark only one oval.
	Number of total electrons
	Number of valence electrons
	Number of unpaired electrons
	Number of paired electrons
53.	45. The angular momentum of an electron of mass m moving in a circular orbit of radius r and velocity $\nu$ is
	Mark only one oval.
	mvr>nh/2π
	$mv = h/2\pi$
	$mvr = nh/2\pi$
	$mvr < nh/2\pi$
54.	46. Which is the correct trend of the change of $\Delta o$ ?
	Mark only one oval.
	5d < 4d < 3d
	3d < 4d > 5d
	3d < 4d < 5d
	4d < 3d < 5d

55.	47. Electrons should be filled in energy sub shells in order of increasing energy values, is the principle of
	Mark only one oval.
	Pauling's
	Pauli's exclusion
	Aufbau
	Hund's
56.	48. Bohr theory was not able to explain
	Mark only one oval.
	Monoelectron systems
	Li ions
	Multielectron systems
	Hydrogen atom
57.	49. The time independent form of Scrodinger equation $\hat{H}$ $\psi$ = E $\psi$ , $\hat{H}$ =
	Mark only one oval.
	Laplacian operator
	Eigen function
	Hamiltonian operator
	Hamiltonian function

58.	enantiomers?
	Mark only one oval.
	R and S
	+and -
	E and Z
	D and L
59.	51. Conformations are different arrangements of atoms that can be converted into one another by rotation about
	Mark only one oval.
	Covalent bond
	Double bond
	Single bond
	Triple bond
60.	52. What type of reaction takes place upon treatment of a ketone with HCN to form a cyanohydrin?
	Mark only one oval.
	Electrophilic substitution
	Nucleophilic substitution
	Nucleophilic addition
	Electrophilic addition

01.	53. The shift of absorption maxima towards higher wavelength is called
	Mark only one oval.
	Blue shift Auxochrome Red shift Chromophore
62.	54. Cis stilbene has lower wavelength than trans stilbene due to  Mark only one oval.  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 benzene rings in cis stilbene  Presence of steric repulsion between two H atoms in trans stilbene
63.	55. Ozonolysis of Ethylene produces  Mark only one oval.  Acetaldehyde  Butanal  Formaldehyde  Acetone

04.	56. In promination of penzene the electrophile is
	Mark only one oval.
	CI Br- Br Br Br
65.	57. What is the effect of the optical angle of rotation (a) if length of polarimeter tube is halved and the concentration of the molecule is doubled?
	Mark only one oval.
	α gets halved α gets doubled
	α remains same
	α gets four times
66.	58. Electrophile are
	Mark only one oval.
	Electron rich species
	Either electron deficient or electron rich depending on temperature
	Electron deficient species
	Vacant electrons

67.	59. The decreasing order of atomic numbers of the atoms He, C, F, B is
	Mark only one oval.
	F> C> He> B
	C> F> B> He
	F> C> B> He
	He> B> C> F
68.	60. A process where volume remains constant is called
	Mark only one oval.
	Sobaric process
	Isothermal process
	Sochoric process
	Adiabatic process
69.	61. A process where volume remains constant is called
	Mark only one oval.
	Sochoric process
	Sobaric process
	Sothermal process
	Adiabatic process

70.	62. Which one of the following is an intensive property?
	Mark only one oval.
	Isochoric process
	Isobaric process
	Sothermal process
	Adiabatic process
71.	63. The value of $\Delta H$ - $\Delta E$ for a reaction involving gaseous substances is
	Mark only one oval.
	$\bigcirc$ $\Delta$ nRT
	$\bigcirc$ $\Delta$ n/ RT
	$\bigcirc$ $\Delta$ nR/ T
	RT/Δn
70	(4. Haven a and 2 mathed mantana are avainable of
72.	64. Hexane and 3-methyl pentane are example of
	Mark only one oval.
	Enantiomers
	Diasteroisomers
	Stereoisomers
	Chain isomers

73.	65. In which medium Favorskii rearrangement occurs?
	Mark only one oval.
	Acidic
	Basic
	Neutral
	Water
74.	66. The shift of absorption maxima towards higher wavelength is called
	Mark only one oval.
	Blue shift
	Red shift
	Auxochrome
	Chromophore
75.	67. Cis stilbene has lower wavelength than trans stilbene due to
	Mark only one oval.
	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

/6.	68. Ozonolysis of Ethylene produces
	Mark only one oval.
	Formaldehyde
	Acetaldehyde
	Butanal
	Acetone
77.	69. What is the effect of the optical angle of rotation (a) if length of polarimeter tube is halved and the concentration of the molecule is doubled
	Mark only one oval.
	α gets halved
	α gets four times
	α remains same
	$\alpha$ eight times
78.	70. The decreasing order of atomic numbers of the atoms He, C, F, B is
	Mark only one oval.
	F> C> B> He
	F> C> He> B
	C> F> B> He
	He> B> C> F

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