## Target ||T-JAM-2019

 Test Series-7FULL LENGTH TEST SERIES-1
Booklet Code: G

Duration: 3:00 Hours
CHEMISTRY-CY
Date: 20-01-2019
Maximum Marks: 100

## Read the following instructions carefully:

1 Attempt all the questions.
2. Section-A contains 30 Multiple Choice Questions (MCQ). Each question has 4 choices (a), (b), (c) and (d), for its answer, out of which ONLY ONE is correct. From Q. 1 to Q. 10 carries 1 Marks and Q. 11 to Q. 30 carries 2 Marks each.
3. Section-B contains 10 Multiple Select Questions(MSQ). Each question has 4 choices (a), (b), (c) and (d) for its answer, out of which ONE or MORE than ONE is/are correct. For each correct answer you will be awarded 2 marks.
4. Section-C contains 20 Numerical Answer Type (NAT) questions. From Q. 41 to Q. 50 carries 1 Mark each and Q. 51 to Q. 60 carries 2 Marks each. For each NAT type question, the value of answer in between 0 to 9.
5. In all sections, questions not attempted will result in zero mark. In Section-A (MCQ), wrong answer will result in negative marks. For all 1 mark questions, $1 / 3$ marks will be deducted for each wrong answer. For all $\mathbf{2}$ marks questions, $\mathbf{2} / \mathbf{3}$ marks will be deducted for each wrong answer. In Section-B (MSQ),there is no negative and no partial marking provision. There is no negative marking in Section-C (NAT) as well.

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## Q. 1 to Q.10: Carry 1 Mark each.

1. In the following atomic orbital which one having two radial node and two angular node is
(a) 2 d
(b) 3 s
(c) 5 d
(d) 2 p
2. The $\Delta H$ for the reversible isothermal expansion of one-mole of an ideal gas at $27^{\circ} \mathrm{C}$ from a volume of $10 \mathrm{dm}^{3}$ to a volume of $20 \mathrm{dm}^{3}$ is
(a) -10 joule
(b) -1000 joule
(c) zero
(d) all of these
3. Which of the following complex has maximum value of wavelength of absorption $\left(\lambda_{\max }\right)$ ?
(a) $\left[\mathrm{Rh}(\mathrm{CN})_{6}\right]^{3-}$
(b) $\left[\mathrm{RhI}_{6}\right]^{3-}$
(c) $\left[\mathrm{CoI}_{6}\right]^{3-}$
(d) $\left[\operatorname{Ir}(\mathrm{CN})_{6}\right]^{3-}$
4. The number of microstates for $\mathrm{Cr}^{3+}$ is
(a) 120
(b) 45
(c) 60
(d) 210
5. In the following decay process,

$$
{ }_{92}^{238} \mathrm{U} \xrightarrow{-\alpha} \mathrm{A} \xrightarrow{-\alpha} \mathrm{B} \xrightarrow{-\beta_{-1}^{0}} \mathrm{C}
$$

The number of neutrons in C is
(a) 144
(b) 142
(c) 141
(d) 146
6. Total number of non-planar species among the following $\mathrm{NO}_{3}^{-}, \mathrm{AsO}_{3}^{3-}, \mathrm{ClO}_{3}^{-}, \mathrm{SO}_{3}^{2-}, \mathrm{CO}_{3}^{2-}$ are
(a) 2
(b) 5
(c) 4
(d) 3
7. Correct pK values order of the given compounds is

(A)

(B)

(C)

(D)

(E)
(a) A $>$ B $>$ C $>$ D $>$ E $>$ F
(b) $\mathrm{D}>\mathrm{C}>\mathrm{A}>\mathrm{B}>\mathrm{E}>\mathrm{F}$
(c) $\mathrm{F}>$ E $>$ B $>$ A $>\mathrm{C}>$ D
(d) $\mathrm{D}>\mathrm{C}>\mathrm{A}>\mathrm{B}>\mathrm{F}>\mathrm{E}$
8. Which one among the following carbocation has the longest half-life?
(a)

(b)

(c)

(d)

9. The major product $(\mathrm{Y})$ is

(a)

(b)

(c)

(d)

10. Antiaromatic compound among the following is
(a)

(b)

(c)

(d)


## Q. 11 to Q.30: Carry 2 Marks each.

11. Nitrous oxide $\mathrm{N}_{2} \mathrm{O}(\mathrm{g})$ decomposes into $\mathrm{N}_{2}(\mathrm{~g})$ and $\mathrm{O}_{2}(\mathrm{~g})$. If the reaction is first order then the rate constant in term of initial pressure $\left(\mathrm{P}_{\mathrm{i}}\right)$ and total pressure $\left(\mathrm{P}_{\mathrm{T}}\right)$ is
(a) $\mathrm{kt}=\ln \left(\frac{\mathrm{P}_{\mathrm{i}}}{2 \mathrm{P}_{\mathrm{T}}-2 \mathrm{P}_{\mathrm{i}}}\right)$
(b) $\mathrm{kt}=\ln \left(\frac{\mathrm{P}_{\mathrm{i}}}{3 \mathrm{P}_{\mathrm{i}}-2 \mathrm{P}_{\mathrm{T}}}\right)$
(c) $k t=\ln \left(\frac{P_{i}}{P_{i}+P / 2}\right)$
(d) None of these
12. If the position of the electron is measured within an accuracy of $\pm 0.0025 \mathrm{~nm}$, then the minimum uncertainty in the momentum of the electron is
(a) $105.51 \times 10^{-25} \mathrm{kgms}^{-1}$
(b) $211.02 \times 10^{-25} \mathrm{kgms}^{-1}$
(c) $422.04 \times 10^{-25} \mathrm{kgms}^{-1}$
(d) zero
13. The commutator $\left[p_{x}, x^{2}\right]$ is equal to
(a) $(-i \hbar) 2 x$
(b) $(i \hbar) 2 x$
(c) $2 x$
(d) $(i \hbar) 2$
14. Which of the following statement(s) is/are correct when a molecule behave like anharmonic oscillator
(a) Ground state energy is zero
(b) Energy levels are equally spaced
(c) Anharmonicity constant is zero
(d) At high vibrational quantum number oscillator does not exist.
15. If $d_{h k \ell}$ is the spacing of successive lattice planes in a simple cubic crystal for Miller indices $(h k l)$. Which of the following is true?
(a) $d_{123}>d_{213}$
(b) $d_{101}>d_{111}$
(c) $d_{310}<d_{320}$
(d) $d_{121}>d_{211}$
16. Which of the following is/are not assumption(s) of kinetic theory of gases?
(a) Particles moves in all directions in straight line
(b) Collisions of gas molecules are elastic
(c) Particles may have different average kinetic energies
(d) $\mu_{\mathrm{rms}}$ for any gaseous moleucle is proportional to its mass.
17. Which of the following nitrosyl complex has least value of $\bar{v}_{\mathrm{NO}}\left(\mathrm{cm}^{-1}\right)$ ?
(a) $[\mathrm{NiCp}(\mathrm{NO})]$
(b) $\left[\mathrm{Co}(\mathrm{CO})_{3} \mathrm{NO}\right]$
(c) $\left[\mathrm{Mn}(\mathrm{CO})_{4}(\mathrm{NO})\right]$
(d) $\left[\mathrm{Cr}(\mathrm{Cp})_{2}(\mathrm{NO})_{2}\right]$
18. The ground state term for low spin $d^{5}$ and high spin $d^{5} s^{1}$ are :
(a) ${ }^{6} S$ and ${ }^{7} S$
(b) ${ }^{2} I$ and ${ }^{7} S$
(c) ${ }^{6} \mathrm{~S}$ and ${ }^{4} \mathrm{~F}$
(d) ${ }^{2} I$ and ${ }^{4} \mathrm{~F}$
19. Which of the following statement is incorrect for hemerythrin?
(a) The two Fe (III) ions present in oxyhemerythrin are in same environment.
(b) Oxyhemerythrin is diamagnetic and EPR inactive
(c) The proton form the hydroxo bridge shifts to the bound peroxide resulting in $\mathrm{HO}_{2}^{-}$group.
(d) It consist of the two iron active site connected by three bridging groups.
20. Out of the following trichlorides the pair which will hydrolysed to give oxychloride as product is :
(a) $\mathrm{NCl}_{3}, \mathrm{SbCl}_{3}$
(b) $\mathrm{SbCl}_{3}, \mathrm{BiCl}_{3}$
(c) $\mathrm{PCl}_{3}, \mathrm{AsCl}_{3}$
(d) $\mathrm{AsCl}_{3}, \mathrm{BiCl}_{3}$
21. Which of the following statement is INCORRECT?
(a) $\mathrm{H}_{2} \mathrm{~S}$ is a stronger acid as compared to water.
(b) $\left(\mathrm{H}_{2} \mathrm{~F}\right)^{+}$and $\left(\mathrm{HF}_{2}\right)^{-}$are self - ionizable products of HF in liquid state.
(c) $\mathrm{SbF}_{5} \cdot \mathrm{HF}$ is a weaker acid as compared to $\mathrm{HSO}_{3} \mathrm{~F}$.
(d) Acetic acid behaves as a base in sulphuric acid.
22. Which of the following acid-base titration curve is incorrect? AWOUR
(a)

(b)

(c)

(d)

23. The correct major product $(\mathrm{P})$ formed in the following reaction sequence is

(a) (1R, 2S)-2, 3, 3-trimethyl cyclohexanol
(b) (R)-1, 2, 2-trimethylcyclohexanol
(c) (1S, 2S)-2, 3, 3-trimethylcyclohexanol
(d) (S)-1, 2, 2-trimethylcyclohexanol
24. Treatment of benzene with $\mathrm{CO} / \mathrm{HCl}$ in the presence of anhydrous $\mathrm{AICl}_{3} / \mathrm{CuCl}$ followed by reaction with $\mathrm{Ac}_{2} \mathrm{O} /$ NaOAc gives compound ( X ) as the major product. The Compound ( X ) upon reaction with $\mathrm{Br}_{2} / \mathrm{Na}_{2} \mathrm{CO}_{3}$, followed by heating at 473 K with moist KOH furnishes Y as the major product. The reaction of ( X ) with $\mathrm{H}_{2} /$ $\mathrm{Pd}-\mathrm{C}$ followed by $\mathrm{H}_{3} \mathrm{PO}_{4}$ treatment gives Z as the major product. The compound $(\mathrm{Z})$ is
(a)

(b)

(c)

(d)

25. In the following reaction, the major product $(\mathrm{W})$ is

(a)

(c)

(b)

26. The incorrect option regarding the compound (A-D) is
(A)

(B)

(C)

(D)

(a) A and B are homomer
(b) A and C are enantiomers
(c) A and D are constitutional isomers
(d) B and C are diastereoisomers
27. The major product $(\mathrm{P})$ formed in the following reaction

(a)

(b)

(c)

(d)

28. Which of the following is the example of epimers?
(a) Glucose and Galactose
(b) Glucose and Ribose
(c) Sucrose and Glucose
(d) Fructose and Glucose
29. 


(a)

(b)

(c)

(d)

30. A compound of formula $\mathrm{C}_{5} \mathrm{H}_{12}$ gives 1 signal in the ${ }^{1} \mathrm{H}$ NMR and 2-signal in the ${ }^{13} \mathrm{C}$ NMR. The compound is
(a) n-pentane
(b) 2-methyl butane
(c) 2, 2-dimethylpropane
(d) 2-pentene

## Section-B : Multiple Select Questions (MSQ)

## Q. 31 to Q.40: Carry 2 Marks each.

31. Correct statement among the following is/are
(P)

(R)

(Q)

(S)

(a) Compound ( P ) having ( R ) configuration
(b) Compound (Q) having (S) configuration
(c) Compound (R) having (M) configuration
(d) Compound ( S ) having ( R ) configuration
32. Which of the following statements are not correct
(a) The cell potential becomes half if the cell reaction is divided by 2 throughout
(b) The dependence of electrode potential for the electrode $\mathrm{M}^{+n} \mid \mathrm{M}$ with conc. under STP conditions is given by the expression, $\mathrm{E}=\mathrm{E}^{0}+\frac{0.059}{\mathrm{n}} \log \left[\mathrm{M}^{+\mathrm{n}}\right]$
(c) $\Delta G=\Delta H-n F T\left(\frac{\partial E}{\partial T}\right)_{P}$
(d) The cell potential $\mathrm{Na}^{+}+\mathrm{e}^{-} \longrightarrow \mathrm{Na}$ is negative.
33. An ideal gas is compressed reversibly and adiabatically. The correct statement(s) is/are
(a) Temperature will increases
(b) Internal energy will increases
(c) Entropy will increases
(d) Pressure will increases
34. The reaction(s) is/are correct among the following
(a) $\mathrm{P}_{4}+3 \mathrm{NaOH}+3 \mathrm{H}_{2} \mathrm{O} \rightarrow 3 \mathrm{NaH}_{2} \mathrm{PO}_{2}+\mathrm{PH}_{3}$
(b) $\mathrm{P}_{2} \mathrm{O}_{3}+3 \mathrm{H}_{2} \mathrm{O} \rightarrow 2 \mathrm{H}_{3} \mathrm{PO}_{3}$
(c) $\mathrm{B}_{2} \mathrm{H}_{6}+2 \mathrm{NH}_{3} \rightarrow\left[\mathrm{BH}_{2}\left(\mathrm{NH}_{3}\right)_{2}\right]^{+}+\mathrm{BH}_{4}^{-}$
(d) $\mathrm{B}_{2} \mathrm{H}_{6}+2 \mathrm{NMe}_{3} \rightarrow\left[\mathrm{BH}_{2}\left(\mathrm{NMe}_{3}\right)_{2}\right]^{+}+\mathrm{BH}_{4}^{-}$
35. Which of the following order is/are correct for given properties?
(a) $\mathrm{NEt}_{3}<\mathrm{C}_{2} \mathrm{H}_{4}<\mathrm{C}_{2} \mathrm{~F}_{4}<\mathrm{CO}$ ( $\pi$-acidity order)
(b) $\mathrm{CO}>\mathrm{NO}_{2}^{-}>\mathrm{Cl}^{-}>\mathrm{NH}_{3}$ (Trans - effect)
(c) $\mathrm{d}_{\mathrm{x}^{2}-\mathrm{y}^{2}}>\mathrm{d}_{\mathrm{z}^{2}}>\mathrm{d}_{\mathrm{xy}}>\mathrm{d}_{\mathrm{yz}}=\mathrm{d}_{\mathrm{xz}}$ (tetragonal elongation splitting)
(d) phen $>$ en $>$ gly $>\mathrm{OH}^{-}\left(\right.$value of $\left.\Delta_{0}\right)$
36. Which statement(s) is/are correct regarding the catalysis reaction?
(a) Rate of hydrogenation of cis-alkenes is greater than that of trans alkenes
(b) CuCl is used as cocatalyst which reoxidizes $\mathrm{Pd}(0)$ back to $\mathrm{Pd}(\mathrm{II})$
(c) In hydroformylation process, the actual catalyst is 16 electron system
(d) Steric hinderance increases the rate of hydrogenation
37. Which of the following option(s) is/are correct?
(a) During $\mathrm{O}_{2}^{+}$formation, one electron is removed from the gerade molecular orbital.
(b) During $\mathrm{N}_{2}^{+}$formation, one electron is removed from the ungerade molecular orbital.
(c) During $\mathrm{O}_{2}^{-}$formation, one electron is added to ungerade molecular orbital.
(d) During $\mathrm{N}_{2}^{-}$formation, one electron is added to gerade molecular orbital.
38. Which of the following statement(s) is/are true regarding qualitative analysis?
(a) Conc. HCl can't be used in place of dil HCl as group reagent of $\mathrm{Gp}-\mathrm{I}$ cations.
(b) If $\mathrm{H}_{2} \mathrm{~S}$ is used alone, then sulphides of Gp-IV cations will also get precipitated along with the precipitate of sulphides of Gp-II cations.
(c) $\left(\mathrm{NH}_{4}\right)_{2} \mathrm{SO}_{4}$ and $\mathrm{NH}_{4} \mathrm{NO}_{3}$ can be used in place of $\mathrm{NH}_{4} \mathrm{Cl}$ with $\mathrm{NH}_{4} \mathrm{OH}$ in the group reagent of Gp-III cations.
(d) NaOH can be used in place of $\mathrm{NH}_{4} \mathrm{OH}$ with $\mathrm{H}_{2} \mathrm{~S}$ in the group reagent of Gp-IV cation.
39. In the following reaction sequence, the major product formed with their respective mechanism( $\mathrm{S}_{\mathrm{N}} 1$ or $\mathrm{S}_{\mathrm{N}} 2$ )
(a)


(b)

(c)


40. In the following, correct major product formed with their mentioned named reaction, respectively.

(b)

(c)

(d)


(iii) $\mathrm{H}^{+}$

## Section-C : Numerical Answer Type (NAT)

## Q. 41 to Q.50: Carry 1 Mark each.

41. In a given cell, solution A transmits $42 \%$ and solution B transmits $85 \%$ of radiation having a certain wavelength. The transmittance at the same wavelength of a solution made by mixing $35 \mathrm{~cm}^{3}$ solution A and $55 \mathrm{~cm}^{3}$ solution B if no reaction occurs is $\qquad$ (Upto three decimal places)
42. On the basis of Langmuir monolayer adsorption isotherm, the plot of $\mathrm{P} / \mathrm{V}$ vs P will give a straight line having slope 0.009 and intercept 9 . The value of constant $k$ is $\qquad$ $\times 10^{-3}$ torr. (answer should be integer).
43. A certain engine which operates in a carnot cycle absorb 3.347 kJ at $400^{\circ} \mathrm{C}$. The amount of work done by the engine per cycle at $100^{\circ} \mathrm{C}$ is $\qquad$ kJ . (Upto two decimal places).
44. The mobilities of $\mathrm{Na}^{+}(\mathrm{aq})$ and $\mathrm{Cl}^{-}(\mathrm{aq})$ at 298 K are $4.26 \times 10^{-8}$ and $6.80 \times 10^{-8} \mathrm{~m}^{2} \mathrm{~V}^{-1} \mathrm{~s}^{-1}$ respectively. The molar conductance at infinite dilution of an aqueous solution of NaCl at 298 K is $\qquad$ $\times 10^{-2} \mathrm{Sm}^{2} \mathrm{~mol}^{-1}$. (Upto two decimal places)
45. An aqueous dilute solution of $2.5 \%$ non-volatile solute exerts a pressure of 1.005 bar at the normal boiling point of the solvent. The molar mass of solute $\qquad$ $\mathrm{gmol}^{-1}$. (Upto two decimal places)
46. ${ }^{13} \mathrm{C}$ NMR signals in the following compound (A) is/are $\qquad$ (answer should be an integer)

47. The number of optically active isomers for $\left[\mathrm{Co}(\mathrm{en})\left(\mathrm{NH}_{3}\right)_{2} \mathrm{Cl}_{2}\right]^{+}$is $\qquad$ . (answer should be an integer).
48. The number of $\mathrm{M}-\mathrm{M}$ bonds per metal in $\mathrm{Ru}_{3}(\mathrm{CO})_{12}$ is $\qquad$ . (answer should be an integer).
49. The ionisation potential of $\mathrm{Be}^{x+}$ is $217.6 \mathrm{eV} /$ atom. The value of $x$ is $\qquad$ . (answer should be an integer).
50. Specific rotation of the given compound $(\mathrm{X})$ is $\qquad$ (Rounded upto one decimal place)


$$
\begin{aligned}
& a=4.42^{\circ} \\
& c=0.1 \mathrm{~g} / \mathrm{ml} \\
& l=10 \mathrm{~cm}
\end{aligned}
$$

## Q. 51 to Q.60: Carry 2 Marks each.

51. The reaction, $\mathrm{N}_{2} \mathrm{O}_{5}(\mathrm{~g}) \rightleftharpoons 2 \mathrm{NO}_{2}(\mathrm{~g})+\frac{1}{2} \mathrm{O}_{2}(\mathrm{~g})$ is started with initial pressure of $\mathrm{N}_{2} \mathrm{O}_{5}(\mathrm{~g})$ equal to 600 mm Hg . The fraction of $\mathrm{N}_{2} \mathrm{O}_{5}(\mathrm{~g})$ decomposed when the total pressure of system is 960 mmHg is
$\qquad$ $\%$. (Upto two decimal places).
52. The observed cell potential of the cell:

$$
\mathrm{Pt}\left|\mathrm{H}_{2}(1 \mathrm{~atm})\right| \mathrm{H}^{+}\left(3 \times 10^{-4} \mathrm{M}\right) \| \mathrm{H}^{+}\left(\mathrm{C}_{1}\right)\left|\mathrm{H}_{2}(1 \mathrm{~atm})\right| \mathrm{Pt}
$$

at 298 K is 0.154 . The value of $\mathrm{C}_{1}$ is $\qquad$ M. (Upto three decimal places)
53. One mole of napthalene was burnt in oxygen gas at constant volume to give carbon dioxide gas and liquid water at $25^{\circ} \mathrm{C}$. The heat evolved was found to be 5138.8 kJ . The enthalpy of reaction is $\qquad$ $\times 10^{2}$ kJ . (Upto two decimal places)
54. Copper has an FCC structure. If the atomic radius is 129.5 pm , then the lattice parameter is $\qquad$ Å. (Upto two decimal places).
55. Out of the following sulphur based acids, $\mathrm{H}_{2} \mathrm{~S}_{2} \mathrm{O}_{5}, \mathrm{H}_{2} \mathrm{~S}_{2} \mathrm{O}_{7}, \mathrm{H}_{2} \mathrm{~S}_{2} \mathrm{O}_{8}, \mathrm{H}_{2} \mathrm{~S}_{2} \mathrm{O}_{6}, \mathrm{H}_{2} \mathrm{SO}_{5}$. The total number of acids which produce $\mathrm{H}_{2} \mathrm{SO}_{4}$ as a product of hydrolysis is $\qquad$ . (answer should be an integer).
56. For a metal ion having $\mathrm{d}^{6}$ configuration in an octahedral complex, the magnitude of crystal field splitting is $32200 \mathrm{~cm}^{-1}$ and the electron pairing energy is $17600 \mathrm{~cm}^{-1}$, the CFSE $\left(\mathrm{in} \mathrm{cm}^{-1}\right)$ if strong field ligand environment is there will be $\qquad$ (answer should be an integer).
57. 3-methyl-pent-2-ene on reaction with HBr in presence of peroxide forms an addition product. The number of possible stereoisomers for the product is/are $\qquad$ (answer should be an integer).
58. The number of oxygen molecules in a one litre flask at $27^{\circ} \mathrm{C}$ and $5.78 \times 10^{-3} \mathrm{~mm}$ of Hg pressure is
$\qquad$ $\times 10^{17}$ (Upto two decimal places).
59. The total number of ${ }^{1} \mathrm{H}$ NMR signals in the major product $(\mathrm{P})$ formed in the following reaction sequence is
$\qquad$ (Answer should be an integer).

60. Reduction of D -xylose with $\mathrm{NaBH}_{4}$ yield a product (X). The number of secondary alcohol present in compound ( X ) is/are $\qquad$ (answer should be an integer).

## ***** END OF QUESTION PAPER *****




IIT-JAM CHEMISTRY-CY<br>TEST SERIES - 7<br>(FULLLENGTH TEST-I)

Date : 19-01-2019
Booklet : $\mathbf{G}$

## ANSWER KEY

## Section-A : Multiple Choice Questions (MCQ)

$\begin{array}{l|lllllll}\text { 1. } \begin{array}{l}\text {.c) }\end{array} & \text { 2. (c) } & \text { 3. } & \text { (c) } & \text { 4. } & \text { (a) } & \text { 5. } & \text { (c) } \\ \text { 6. (d) } & \text { 7. } & \text { (d) } & \text { 8. } & \text { (a) } & \text { 9. } & \text { (a) } & \text { 10. }\end{array}$ (b) $)$

## Section-B : Multiple Select Questions (MSQ)

31. (a),(b),(d)
32. (a),(b),(c),(d)
33. (a),(b)
34. (a),(b),(d)
35. (a),(b),(c)
36. (a),(b),(c),(d)
37. (a),(c)
38. (a),(b),(d)
39. (a),(b)
40. (c),(d)

## Section-C : Numerical Answer Type (NAT)

41. (0.640 to 0.650 )
42. (1)
43. (1.45 to 1.55 )
44. (1.04 to 1.08 )
45. (58.20 to 52.65)
46. (7)
47. (2)
48. (2)
49. (3)
50. (-51.50 to -51.40$)$
51. (44.0 to 44.5 )
52. ( 0.20 to 0.30 )
53. (0.110 to 0.130 )
54. (4)
55. (3.60 to 3.70 )
56. (4)
57. (-42080)
58. (1.80 to 1.90 )
59. (4)
60. (3)
