

SUMMER HOLIDAY HOMEWORK- 2026

CLASS 12 - NMB

ENGLISH

1. An interschool Kabaddi Competition is organized by your school. Write a notice, in not more than 50 words, requesting the students to be present at the venue to encourage the players. Invent all the necessary details. You are Arjun, the sports captain of your school.
2. You lost your Titan wrist-watch in your school. Draft a notice, in not more than 50 words, to be placed on your school notice board. You are a student of Class XII of Rani Ahalya Devi Senior Secondary School, Gwalior. Sign as Rani/Ram.
3. Mr. and Mrs. R. Vaidyanathan of 27, Appletree Orchard, Mangalore, have decided to have a party on the occasion of the twenty-first birthday of their son, Rahul Vaidyanathan. Write the invitation giving details of the date, time, and venue. Do not exceed 50 words.
4. You are Faiz/Falak Mazumdar living at 39, Udampur Colony, Shimla. You decide to hold a dinner party to congratulate your grandparents on their golden wedding anniversary. Draft a formal invitation in not more than 50 words to all family members to attend a grand dinner at home.
5. You are Dhruv/ Deepa. Your father, Shri Dheeraj Garg of Gurugram wants you to draft an invitation to be sent to friends and relatives on the occasion of your elder sister's marriage. Prepare the invitation giving necessary details in not more than 50 words.
6. Neha Bajaj, the President of the English Literary and Debating Society Kendriya Vidyalaya, Sector 19, Chandigarh, has organised an Inter-school Declamation Competition on the topic 'More Vocational Courses Should be Introduced at the +2 Level'. She wishes to invite Dr Sanjay Gupta, an eminent educationist to the occasion to preside over the function to be held on November 15, 2016 at 10.00 a.m. Write an informal invitation in not more than 50 words.
7. Write a letter to the Editor, Times of India, drawing attention of the concerned authorities towards the long power cuts that your colony is facing causing a lot of inconvenience to the students, the old and the sick. You are Vimala / Vineet, 14 Srinagar Colony, Roorkee.
8. You are Samita/Sunit, resident of C-41, Sant Vihar, Delhi- 1. You find, participation of children in various reality shows on T.V. a form of child exploitation. Write a letter to the editor of a national daily showing your concern about various forms of child exploitation prevalent in Educated, Urban society giving some suggestions to curtail it.
9. Write the summary and poetic devices of all the 5 poems.

CHEMISTRY

1. Which of following is not a Colligative property?
(a) Relative lowering of vapour pressure
(b) Elevation in boiling point
(c) Osmotic pressure
(d) Atmospheric pressure
2. If solute do not undergo neither association nor dissociation, its Van't Hoff factor (i) will be
(a) less than unity
(b) greater than unity
(c) unity
(d) zero

19. The compound that doesn't undergo hydrolysis by SN1 mechanism
a) C6H5CH2Cl b) C6H5Cl
c) CH2=CH-Cl d) C6H5-C(CH3)2-Cl
20. The organic detergent that is used in hair conditioners
(a) sodium dodecyl benzene sulphonate
(b) sodium lauryl sulphate
(c) cetyl trimethyl ammonium bromide
(d) tetra methyl ammonium chloride.
21. Which of the following aqueous solutions would have the highest boiling point ?
a) 1.0 M NaOH b) 1.0 M Na2SO4
c) 1.0 M NH4NO3 d) 1.0 M KNO3
22. The set with the correct order of acidity is :-
a) HClO < HClO2 < HClO3 < HClO4
b) HClO4 < HClO3 < HClO2 < HClO
c) HClO4 < HClO3 < HClO, HClO2
d) HClO3 < HClO2 < HClO < HClO4
23. Each polypeptide in a protein has amino acids linked with each other in a specific sequence. This sequence of amino acids is said to be-
a) Secondary structure of Protein
b) Tertiary structure of Protein
c) Primary structure of Protein
d) Quaternary structure of Protein
24. Which of the following electrolytes will have maximum coagulating value for AgI/Ag+ sol ?
a) Na2S b) Na3PO4
c) Na2SO4 d) NaCl
25. Which of the following alkyl halides will undergo SN1 reaction most readily ?
a) (CH3)3C-F b) (CH3)3C-Cl
c) (CH3)3C-Br d) (CH3)3C-I
26. The rate constant of a reaction is $2.0 \times 10^{-6} \text{ mol}^{-2} \text{ L}^2 \text{ s}^{-1}$. The order of the reaction is
a) zero b) Two c) One d) Three
27. Methylamine reacts with HNO2 to form
a) CH3-O-N=O
b) CH3-O-CH3
c) CH3OH
d) CH3CHO
28. The quantity of charge required to obtain one mole of Aluminium from Al2O3 is
a) 1 F b) 6 F c) 3 F d) 2 F
29. Which of the following statements is not correct ?
a) Terylene is a polyester polymer
b) Caprolactam is the monomer of Nylon - 6
c) Phenol Formaldehyde resin is known as Bakelite
d) The monomer of natural rubber is Butadiene
30. Which of the following compounds does not undergo aldol condensation: ---OCH3
a) CH3CHO
b) CH3CH2CHO
c) CH3-C-CH3
d) CH3-C-CHOCH3
31. The system that forms maximum boiling azeotrope is
a) Ethanol-Water b) Benzene-toluene
c) Nitric acid-water d) CS2-Acetone
32. The standard emf of a Galvanic cell involving 3 moles of electrons in a redox reaction is 0.59V. The equilibrium constant for the reaction is
a) 1010 b) 1020 c) 1030 d) 1015
33. The half life of first order reaction is 69.3s. The value of rate constant of the reaction is

48. Colligative properties depend on .
 - a) the nature of the solute particles dissolved in solution.
 - b) the number of solute particles in solution.
 - c) the physical properties of the solute particles dissolved in solution.
 - d) the nature of solvent particles.
49. Which of the following aqueous solutions should have the highest boiling point?
 - a) 1.0 M NaOH
 - b) 1.0 M Na₂SO₄
 - c) 1.0 M NH₄NO₃
 - d) 1.0 M KNO₃
50. The unit of ebullioscopic constant is _____.
 - a) K kg mol⁻¹ or K (molality)⁻¹
 - b) mol kg K⁻¹ or K⁻¹ (molality)
 - c) kg mol⁻¹ K⁻¹ or K⁻¹ (molality)⁻¹
 - d) K mol kg⁻¹ or K (molality)
51. The reddish brown coloured gas formed when nitric oxide is oxidised by air is
 - a) N₂O₅
 - b) N₂O₄
 - c) NO₂
 - d) N₂O₃
52. Which of the following is most stable to heat.
 - a) HCl
 - b) HOCl
 - c) HBr
 - d) HI
53. Bromine can be liberated from potassium bromide solution by the action of
 - a) Iodine solution
 - b) Chlorine water
 - c) NaCl
 - d) KI
54. Which one of the following oxide is neutral
 - a) CO
 - b) SnO₂
 - c) ZnO
 - d) SiO₂
55. On Heating ammonium dichromate the gas evolved is
 - a) Oxygen
 - b) Nitrogen
 - c) Nitrous oxide
 - d) All of the above
56. In the metallurgy of iron when lime stone is added to the blast furnace the calcium ion ends up in as
 - a) slag
 - b) gangue
 - c) metallic calcium
 - d) calcium carbonate
57. Amongst [Ni(CO)₄] and [Ni(CN)₄]²⁻ and [NiCl₄]²⁻
 - a) [Ni(CO)₄] and [NiCl₄]²⁻ are diamagnetic and [Ni(CN)₄]²⁻ is paramagnetic
 - b) [NiCl₄]²⁻, [Ni(CN)₄]²⁻ are diamagnetic and [Ni(CO)₄] is paramagnetic
 - c) [Ni(CO)₄] and [Ni(CN)₄]²⁻ are diamagnetic and [NiCl₄]²⁻ is paramagnetic
 - d) [Ni(CO)₄] is diamagnetic and [Ni(CN)₄]²⁻, [NiCl₄]²⁻ are paramagnetic
58. The product of oxidation of I⁻ with MnO₄⁻ in alkaline medium is
 - a) IO₃⁻
 - b) I₂
 - c) IO⁻
 - d) IO₄⁻
59. The compound which react fastest with Lucas reagent at room temperature is
 - a) Butan-1-ol
 - b) Butan-2-ol
 - c) 2-methylpropan-1-ol
 - d) 2-methylpropan-1-ol
60. An industrial method of preparation of methanol is
 - a) catalytic reduction of carbon monoxide in presence of ZnO-Cr₂O₃
 - b) By reacting steam with nickel catalyst at 9000°C
 - c) By reducing formaldehyde with LiAlH₄
 - d) By reacting formaldehyde with aq. NaOH solution.
61. Reagent with which acetaldehyde and acetone reacts easily is
 - a) Fehling's reagent
 - b) Grignard's reagent
 - c) Schiff's reagent
 - d) Tollens reagent.
62. The Cannizzaro reaction is not given by
 - a) trimethyl acetaldehyde
 - b) acetaldehyde
 - c) benzaldehyde
 - d) formaldehyde

63. The formation of cyanohydrin from ketone is an example of
 - a) electrophilic addition
 - b) Nucleophilic addition
 - c) Nucleophilic substitution
 - d) electrophilic substitution
64. Hydrogenation of benzoyl chloride in the presence of Pd/BaSO₄ gives
 - a) Benzyl alcohol
 - b) Benzaldehyde
 - c) benzoic acid
 - d) Phenol
65. When propionic acid is treated with aq. NaHCO₃, CO₂ is liberated, c of CO₂ comes from
 - a) Methyl group
 - b) Carboxylic acid group
 - c) Methylene group
 - d) bicarbonate group.
66. Chlorobenzene can be prepared by reacting aniline with
 - a) HCl
 - b) Cuprous chloride
 - c) Chlorine in presence of AlCl₃
 - d) Nitrous acid followed by heating with Cuprous chloride
67. n-propyl bromide on treatment with ethanolic potassium hydroxide produces
 - a) Propane
 - b) Propene
 - c) Propyne
 - d) Propanol
68. Acetamide is treated separately with the following reagents. which one of these would give methylamine
 - a) PCl₃
 - b) NaOH + Br₂
 - c) Sodalime
 - d) Hot conc H₂SO₄
69. Carbyl amine test is performed in alcoholic KOH by heating a mixture of
 - a) Chloroform and Ag powder
 - b) Trihalogenated methane and primary amine
 - c) an alkyl halide and primary amine
 - d) an alkyl cyanide and primary amine
70. Amongst the following the most basic compound is
 - a) Benzylamine
 - b) aniline
 - c) acetanilide
 - d) p-nitroaniline
71. Which of the following aqueous solutions should have the highest freezing point?
 - a) 1.0 M NaOH
 - b) 1.0 M Na₂SO₄
 - c) 1.0 M NH₄NO₃
 - d) 1.0 M Urea
72. How many Faradays of electricity is needed to completely reduce 1 mol of permanganate ion in acid medium
 - a) 2F
 - b) 4F
 - c) 6F
 - d) 5F
73. What is the hybridization of Xe in XeOF₄
 - a) sp³ d
 - b) sp³ d²
 - c) sp²
 - d) sp³
75. Which of the following can cause coagulation of the negatively charged As₂S₃ sol most effectively
 - a) 1.0 M NaCl
 - b) 1.0 M Na₂SO₄
 - c) 1.0 M AlCl₃
 - d) 1.0 M Urea
76. The values of Van't Hoff factors for sucrose, NaCl and K₂SO₄, respectively, are _____.
 - a) 6, 2 and 2
 - b) 2, 2 and 3
 - c) 1, 2 and 3
 - d) 1, 1 and 7
77. The ionisation isomer of [Cr(H₂O)₄Cl(NO₂)] Cl is
 - a) [Cr(H₂O)₄(O₂N)]Cl₂
 - b) [Cr(H₂O)₄Cl₂](NO₂)
 - c) [Cr(H₂O)₄Cl(ONO)]Cl
 - d) [Cr(H₂O)₃Cl₂(NO₂)] H₂O

