

CLASS 11

CHEMISTRY (CLASS : XI A)

1. PROJECT WORK AS ALLOTTED

2. Indicate the oxidation number of underlined in each case :

- | | |
|--|--|
| (a) $\text{Na}\underline{\text{N}}\text{O}_2$ | (b) $\underline{\text{H}}_2$ |
| (c) $\underline{\text{Cl}}_2\text{O}_7$ | (d) $\text{K}\underline{\text{Cr}}\text{O}_3\text{Cl}$ |
| (e) $\underline{\text{Ba}}\text{Cl}_2$ | (f) $\underline{\text{I}}\text{Cl}_3$ |
| (g) $\text{K}_2\underline{\text{Cr}}_2\text{O}_7$ | (h) $\underline{\text{C}}\text{H}_2\text{O}$ |
| (i) $\underline{\text{Ni}}(\text{CO})_4$ | (j) $\underline{\text{N}}\text{H}_2\text{OH}$ |
| (k) $(\underline{\text{N}}_2\text{H}_5)_2\text{SO}_4$ | (l) $\underline{\text{Mg}}_3\text{N}_2$ |
| (m) $[\underline{\text{Co}}(\text{NH}_3)_5\text{Cl}]\text{Cl}_2$ | (n) $\text{K}_2\underline{\text{Fe}}\text{O}_4$ |
| (o) $\text{Ba}(\text{H}_2\underline{\text{P}}\text{O}_2)_2$ | (p) $\text{H}_2\underline{\text{S}}\text{O}_4$ |
| (q) $\underline{\text{C}}\text{S}_2$ | (r) $\underline{\text{S}}^{-2}$ |
| (s) $\text{Na}_2\underline{\text{S}}_4\text{O}_6$ | (t) $\underline{\text{S}}_2\text{Cl}_2$ |
| (u) $\underline{\text{R}}\text{NO}_2$ | (v) $\underline{\text{Pb}}_3\text{O}_4$ |
| (w) $\underline{\text{S}}_2\text{O}_8^{-2}$ | (x) $\underline{\text{C}}_6\text{H}_{12}\text{O}_6$ |
| (y) $\text{Mg}_2\underline{\text{P}}_2\text{O}_7$ | (z) $\text{K}\underline{\text{Cl}}\text{O}_3$ |

3. Indicate in each reaction which of the reactant is oxidized or reduced if any :

- (a) $\text{CuSO}_4 + 4\text{KI} \longrightarrow 2\text{CuI} + \text{I}_2 + 2\text{K}_2\text{SO}_4$
 (b) $2\text{Na}_2\text{S} + 4\text{HCl} + \text{SO}_2 \longrightarrow 4\text{NaCl} + 3\text{S} + 2\text{H}_2\text{O}$
 (c) $\text{NH}_4\text{NO}_2 \xrightarrow{\Delta} \text{N}_2 + 2\text{H}_2\text{O}$

4. Calculate the number of electrons lost or gained during the changes :

- (a) $3\text{Fe} + 4\text{H}_2\text{O} \longrightarrow \text{Fe}_3\text{O}_4 + 4\text{H}_2$
 (b) $\text{AlCl}_3 + 3\text{K} \longrightarrow \text{Al} + 3\text{KCl}$

5. Explain, why?

- (a) H_2S acts as reductant whereas, SO_2 acts as reductant and oxidant both.
 (b) H_2O_2 acts as reductant and oxidant both.

6. Write complete balanced equation for the following in acidic medium by ion-electron method:

- (a) $\text{ClO}_3^- + \text{Fe}^{+2} \longrightarrow \text{Cl}^- + \text{Fe}^{+3} + \text{H}_2\text{O}$
 (b) $\text{IO}_4^- + \text{I}^- + \text{H}^+ \longrightarrow \text{I}_2 + \text{H}_2\text{O}$
 (h) $\text{Br}^- + \text{BrO}_3^- + \text{H}^+ \longrightarrow \text{Br}_2 + \text{H}_2\text{O}$
 (i) $\text{H}_2\text{S} + \text{Cr}_2\text{O}_7^{2-} + \text{H}^+ \longrightarrow \text{Cr}_2\text{O}_3 + \text{S}_8 + \text{H}_2\text{O}$

7. Balance the following equations by oxidation number method:

- (a) $\text{Cu} + \text{NO}_3^- + \text{H}^+ \longrightarrow \text{Cu}^{+2} + \text{NO}_2$ (Acid medium)
 (b) $\text{Fe}^{+2} + \text{MnO}_4^- \longrightarrow \text{Fe}^{+3} + \text{Mn}^{+2}$ (Acid medium)
 (c) $\text{MnO}_2 + \text{H}_2\text{O}_2 \longrightarrow \text{MnO}_4^- + \text{H}_2\text{O}$ (Basic Medium)
 (d) $\text{I}^- + \text{H}_2\text{O}_2 \longrightarrow \text{H}_2\text{O} + \text{I}_2$ (Acid medium)
 (e) $\text{Cu}^{+2} + \text{I}^- \longrightarrow \text{Cu}^+ + \text{I}_2$

Class XIA&B Subject: Physics

1.NCSC 2017 projects as allotted

Class-11 'B' (Chemistry)

1. Completion of questions and answers of Ch-5 exercise.

2. Making notes of Ch-Hydrogen.
3. Completion of NCSC work.

Sub Maths

Miscellaneous exercise of Unit- 1, 3, 5, 6, 7 and 8

Class XI

Economics

1. calculate x , m and z-

Cl. F

0-10. 2

10-20. 5

20-30. 10

30-40. 8

40-50. 6

2. Calculate MD ,SD and it's coefficient-

a. 10 ,12, 16,18,20

b. X 2 4 6. 8 10

F 1 3 7 3 2

3. Calculate SD and it's coefficient –

C.I. F

0-4 1

4-8. 3

8-12. 5

12-16. 7

16-20. 2

20-24. 1

4. Difference between

a. Primary and secondary data

- b. Census and sample method**
- c. Inclusive and Exclusive serie**

5. Define

- a. Statistics**
- b. Bar diagram**
- c. Questionnaire**
- d.MD**

Xi BS

PPT

Xi A/C Revision Journal ,Cash Book,BRS ,rectification,Subsidiary Book,Bills of exchange

Class XI A

Sub:- Computer Science

1. What is token? Explain different category of token with suitable example.
2. What is data types? Explain different data types?
3. Write any five C++ program.

Class XI C

Subject : IP

4. What is token? Explain different category of token with suitable example.
5. What is data types? Explain different data types?
6. Design GUI application for the following
 - a. Input marks of five subject and print total, percentage and grade
 - b. Input amount and display discount
 - c. Input salary of employee and display bonus. Bonus is calculate as under
If salary > 50000 then bonus will be 10000 otherwise bonus will be 5000
 - d. Input sale of salesman and calculate comm as per criteria

Class XII

Class XII A & B Subject: Physics

1. What are the differences between interference and diffraction of light?
2. Find out an expression for fringe width during interference of light.
3. Using Huygens principle verify laws of reflection of light.
4. Using Huygens principle verify laws of refraction of light.
5. Find out a relation between refractive index, angle of prism and angle of minimum deviation.
6. Draw ray diagram of simple microscope and write its magnifying power (image formed at D)
7. Draw ray diagram of compound microscope and write its magnifying power (image formed at D)
8. Draw ray diagram of astronomical telescope and write its magnifying power (image formed at D)
9. Draw diagram of polarization by reflection and scattering of light.
10. Write Huygens principle.
11. NCERT question no 1 to 10 of chapter 9 ray optics
12. NCERT question no 1 to 10 of chapter 10 wave optics

Maths

1. Even No Question Of Miscellaneous exercise of unit -7
2. All Question Of Miscellaneous exercise of unit -8
3. All Question Of Miscellaneous exercise of unit -9

Eco

- Revised all the topic/chapters
- Solve CBSE question papers.

CLASS 12th – A CHEMISTRY WORK-

- 1.Completion of project work and practical record .
- 2.revision of topics of unit test as per previous board paper.

Class XII A CS

Develop an application based project in C++ with use of data file handling

Solved Sample papers uploaded on school website www.kvutarlai.org

Class XII C IP

Develop an application based project in Netbeans Java and MySQL.

Solved Sample papers uploaded on school website www.kvutarlai.org

