



ACKNOWLEDGMENT

The COVID-19 Pandemic has brought forth several challenges to all apart from educating ourselves in keeping oneself, healthy & safe. One such challenge is to keep our students engaged in educational activities and keeping them abreast with their courses during these unprecedented closures of schools.

In the interest of the student community, the Department of Education (School), Manipur with the support from the Board of Secondary Education, Manipur has brought out Notes & Solutions in all subjects for classes I-XII for which we are immensely grateful to the Hon'ble Minister Education, Manipur, Shri. Thokchom Radheshyam for his guidance & encouragement all throughout the process.

The Department would also like to convey our acknowledgment to Shri. T. Ranjit Singh (IAS), Commissioner of Education (S), Government of Manipur for his wholehearted support as well as to Shri. Th. Kirankumar (IAS) erstwhile Director Education (S), Manipur and Shri. L. Nandakumar (IAS), Joint Secretary Education-S, Government of Manipur for sowing the seeds for such an innovative approach to reach out to the students during the lockdown period.

The Department is also indebted to all the core team of teachers who have contributed their mite in whatever way possible to help in materializing the dream.

The work would not have seen the light of the day without the involvement of the Team of MES Officers & Officials of the Department, Data Entry Operators, N.E.S.T Advertising & Marketing Pvt. Ltd and innumerable number of persons who have made this possible.



सिगाँवसुनोड ँडे नसुनोड (अंन)
DEPARTMENT OF EDUCATION (S)
Government of Manipur

Government of Manipur
Department Of Education (S)
NOTES PREPARATION FOR CLASS X

For the Government Schools of Manipur

EDITORIAL TEAM FOR CLASS X CHEMISTRY

- 1) Th. Kirankumar (IAS), Director of Education (S), Manipur
- 2) Hmangte Lerte Kom (MCS), Addl. Director of Schools (Hills), Manipur
- 3) Chingakham Sachi (MCS), Addl. Director of Schools (Valley), Manipur
- 4) Dennis Elangbam (MES), Nodal Officer Notes Preparation for Class IX & X

LIST OF CONTRIBUTORS

1. Irom Usharani Devi, Sr. Lecturer, Chemistry, Ananda Singh Higher Secondary Academy
2. Khilona Thokchom, Lecturer, Chemistry, Model Higher Secondary School
3. Dr. K. Dhanapati Devi, GT, Chemistry, Ananda Singh Higher Secondary Academy
4. Soibam Bijaya Chanu, GT, Chemistry, Lamlong Higher Secondary School
5. Ksh. Meena, UPT, Chemistry, Khurai Popular High School
6. Rojita Angom, UPT, Chemistry, Phaknung Upper Primary School



सिगाँवसुनोड ँडे नसुनोड (अंन)
DEPARTMENT OF EDUCATION (S)
Government of Manipur

DEPARTMENT OF EDUCATION (S)
Government of Manipur