



SANSKAR BHARTI HIGH SCHOOL

VAPI

CBSE Affiliated, Affiliation No.430627

DIWALI NOTICE & HOMEWORK

Class -



Dear Parents,

We are pleased to inform you that the **Diwali Vacation will commence from 16th October to 5th November**. The students have performed wonderfully in their previous semester, and we truly appreciate their hard work and dedication. To continue this positive spirit, it is important that **parents, teachers, and students work together** to make their achievements shine even brighter.

As the festive season begins, we kindly request all parents to **take proper care of their children during the vacation**. Please ensure that they follow safety measures, especially while **bursting crackers**, as overenthusiasm can sometimes lead to accidents or injuries. We urge you to **guide and supervise your children** so that they can enjoy a safe and joyful Diwali celebration.

Wishing you and your family a **very Happy and Prosperous Diwali!**

The School will Re-Open on 06th November 2025.

HOMEWORK DETAILS

Chemistry :

1. Draw the MOT diagram of O_2 , N_2 , C_2 , F_2 , and also write the magnetic properties, electronic configuration and bond order.
2. Write all the postulates of Bohr's atomic model.
3. Describe the Rutherford experiment in detail with diagram.

Physics :

1. Explain current development in satellites and its types.
2. Explain about energy and its current development for futuristic use.
3. Explain current technological development of Physics in terms Power.
4. Explain Rotational motion along with application.
5. Write formulas of part -1, 3 times.

Computer :

Define 15 commands of command prompt with example and syntax.

Biology :

Chapter 9: Biomolecules

1. Protein structure and function
2. Enzyme types, properties, and action
3. Carbohydrate structure and function
4. Nucleic acid structure and function

Chapter 10: Cell Cycle and Cell Division

5. Cell cycle phases and regulation
6. Mitosis and meiosis
7. Significance of mitosis and meiosis

Chapter 11: Photosynthesis in Higher Plants

8. Light and dark reactions
9. Photophosphorylation

- 10. C3 and C4 pathways
- 11. Factors affecting photosynthesis

Chapter 12: Respiration in Plants

- 12. Glycolysis and TCA cycle
- 13. Aerobic and anaerobic respiration
- 14. ATP production
- 15. Respiratory quotient

Chapter 13: Plant Growth and Development

- 16. Plant growth regulators (auxin, gibberellin, cytokinin, ethylene, ABA)
- 17. Seed germination and dormancy
- 18. Phases of plant growth

Chapter 15: Body Fluids and Circulation

- 19. Heart structure and function
- 20. Blood composition and circulation
- 21. Cardiac cycle and output
- 22. Blood pressure regulation

Chapter 16: Excretory Products and Their Elimination

- 23. Kidney structure and function
- 24. Urine formation and regulation
- 25. Kidney disorders (uremia, renal failure)

Chapter 19: Chemical Coordination and Integration

- 26. Endocrine glands and hormones
- 27. Human endocrine system and Mechanism of hormone action
- 28. Role of hormones in regulation and Disorders related to endocrine system (e.g. diabetes, thyroid disorders)

Prepare a chart paper or a PowerPoint presentation on the assigned topic and present it briefly in classroom.

Maths :

Std -11sci , Sub - Maths

Write all formula of trigonometric functions and solve all examples.

English :

Students, this is your Diwali homework 🖱

Write two essays:

- 1) Discipline is must for progress
- 2) Importance of reading as a habit