# SANSKAR BHARTI HIGH SCHOOL



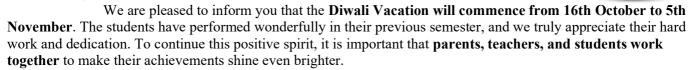
## **VAPI**

CBSE Affiliated, Affiliation No.430627

## **DIWALI NOTICE & HOMEWORK**

Class -

Dear Parents.



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 06<sup>th</sup> 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 developement in statellites and its types.
- 2. Explain about energy and its current developement for futuristic use.
- 3. Explain current technological developement 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
- Www9. 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