



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

Physics :

1. Explain gauss law and its applications
2. Derive lens maker formula
3. Derive mirror formula
4. Explain construction and working of simple and compound microscope
5. Explain construction and working of telescope
6. Explain Young's single slit and double slit experiment.
7. Explain LCR series circuit.
8. Explain Force between parallel currents.
9. Explain Biot Savart law.
10. Explain potential due to dipole.

Chemistry :

Q.1 Write the name reactions given below:

1. Reimer Tiemann
2. Kolbes reaction
3. Wurtz reaction
4. Swarts reaction
5. Gatterman reaction
6. Sandmeyer reaction
7. Williamson synthesis
8. Finkelstein reaction
9. Friedel Crafts reaction alkylation and acylation.
10. Wurtz fitting reaction
10. Describe lead storage battery and dry cell in detail. with reaction.

Maths :

Write all formula of inverse trigonometry functions, differentiations and integrations and solve the examples of 7.1, 7.2 and 7.3

Biology :

1. Explain co-dominance in humans with example.
2. Describe cellular and cytokine barriers of innate immunity.
3. Explain molecular structure of antibody with diagram.
4. Explain vaccination and immunisation.
5. Describe double fertilization in flowering plants.
6. Explain parturition and lactation.
7. Explain intrauterine devices (IUD).
8. What is adaptive radiation? Explain with example.
9. Explain Hardy–Weinberg principle.
10. Explain Miller’s experiment with diagram.
11. Explain menstrual cycle in women (figure not required).
12. Explain spermatogenesis (diagram not required).
13. Explain oogenesis – from primary follicle formation to ovulation (chart necessary).
14. Draw and explain the labelled sectional view of the female reproductive system and structure of womb.
15. Give detailed account of colour blindness and sickle cell anaemia (diagram not required).
16. Explain sex determination in honey bee with diagram.
17. Explain dihybrid cross with chart.
18. Describe “cancer detection, diagnosis and treatment”.
19. Describe lymphoid organs and their functions.
20. Describe the exaggerated response of the immune system to certain environmental antigens (allergy)

English :

Write two essays :

- 1) Can Plastic be Recycled?
- 2) Entrance Exam - A corridor to Advance Studies

Computer :

Prepare flowchart for e-commerce and m-commerce website