



Rayat Bahra International School, Hsp

Holidays Homework 2023-24

Grade XII Medical/Non Medical

Holidays are time when you can connect with your child in many ways. As parents are the first and the most important teacher for a child, we can encourage our child to participate in many educational activities at home and promote his/her quest to learn. Working together will not only help your child to build, learn and develop his/her skills but also strengthen your bond with him/her.

General Instructions

Instructions For Students:-

- ⊕ Try to do your vacation work by yourself.
- ⊕ Use separate Note book for each subject.
- ⊕ Writing should be very good and neat.
- ⊕ Do all work under the guidance of your parents and guardians.
- ⊕ Do all work with date & day.
- ⊕ Try to do your written work regularly to enhance your writing power.
- ⊕ Pay special attention towards your health and caring.
- ⊕ Try to Pray God Daily.

Instructions For Parents:-

- ⊕ Holiday homework has to be done under the parental guidance.
- ⊕ Fix up a time table for your ward to organize his/her daily routine like, watching television, playing with friends, studying etc.
- ⊕ Make your child responsible by assigning some of the household responsibilities to him/her.

English

Assignment

- Paste 3 Articles and 3 Reports on assignment sheets and give headings on the top
- Find out 20 phrases from newspaper paste the clippings on assignment sheets and write their meanings and sentences which you can use in your daily conversation.

Note: Homework must be compiled in a file that should be covered property.

Debate

- “Reservation of seats in professional colleges” Students will be guided individually about their roles. You all need to be well prepared for debate as after vacations a debate competition will be held between both the sections of G 12 and you all will have to participate.

Chemistry

Make any one working model

1. Types of solution.
2. Solid state (valency defects, crystal lattice).
3. Structure of $BaCl_2$ and $NaCl$.
4. Osmosis and diffusion.
5. Chromatography.
6. Structure of benzene.
7. Preparation of chlorine gas.
8. Preparation of HCl gas.
9. Collision theory.
10. Distillation of water.
11. Electrolysis.

Physics

Make (Any one) Working Models

1. Thermoelectric Generator
2. Electromagnetic Induction
3. Wireless fan.
4. Capacitor in series / parallel.

5. Capacitor charging / discharging.
6. Automatic street light.
7. Step down transformer.
8. Household circuit.
9. Diode as a switch.
10. Full wave rectifier.
11. High Power electricity generator by waste materials.

Revise solved Numerical and NCERT Questions

Biology

Working model of following in accordance to your roll no.

1. DNA structure
2. Pollination
3. Menstrual cycle
4. Spermatogenesis
5. Oogenesis
6. Double Fertilization in angiosperms

Mathematics/ Applied Mathematics

Individual Projects has been given under the guidance of subject incharge.

Roll no.1

- 10 questions related to derivatives of $\sin x$, $\cos x$, $\tan x$
- 20 questions from previous year board papers of chapter matrices

Roll no 2.

- 10 questions related to derivatives of $\cot x$, $\sec x$, $\operatorname{cosec} x$
- 20 questions from previous year board papers of chapter determinants

Roll no.3

- 10 questions related to derivatives of $\sin^{-1}x$, $\cos^{-1}x$, $\tan^{-1}x$
- 20 questions from previous year board papers of chapter Relations

Roll no. 4

- 10 questions related to derivatives of $\cot^{-1}x$, $\sec^{-1}x$, $\operatorname{cosec}^{-1}x$
- 20 questions from previous year board papers of chapter functions

Roll no.5

10 questions related to derivatives of $\log x$, e^x , a^x
20 questions from previous year board papers Inverse
trigonometric functions (principal value).

Roll no .6

10 questions related to derivatives of product rule (uv), quotient
rule u/v
20 questions from previous year board papers of chapter Inverse
trigonometric functions (related to trigonometric formulas)

Roll no.7

10 questions related to chain rule
20 questions from previous year board papers of ch
Matrices

Roll no. 8

10 questions related to derivatives of higher order
20 questions from previous year board papers of chapter
determinants

Note:

Chart of formulas of differentiation is compulsory for
everyone

Computer Science (402)

Project Work

Student Name: Abhishek

Project on Courier_Service_System_Project

Students Name: Chetna Manchanda and Tamanleen Kaur

Project on Marketing System and Sales System

Physical Education

Write an assignment on any one of the following topics and
prepare your Lab manual (RP lab manual)
Cricket/ Football/ Athletics.

Painting

PREPARE ANY ONE : CANVAS PAINTING or HANGING
WITH SEA BEADS

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