



RAYAT-BAHRA INTERNATIONAL
SCHOOL Chandigarh Road, Hoshiarpur Affiliated to **CBSE (1631251)**



SUMMER VACATION ASSIGNMENT

MEDICAL
GRADE-XI



“The more that you read, the more things you will know. The more that you learn, the more places you’ll go.”

CHEMISTRY



1. How many protons and neutrons are present in the following nuclei
a) ${}_6\text{C}^{13}$ b) ${}_8\text{O}^{16}$ c) ${}_{12}\text{Mg}^{24}$ d) ${}_{26}\text{Fe}^{56}$ e) ${}_{38}\text{Sr}^{88}$
2. Write the complete symbol for the atoms with given atomic number (Z) and atomic mass (A)
a) $Z=17, A=35$ b) $Z=92, A=233$ c) $Z=4, A=9$
3. Yellow light emitted from a sodium lamp has a wavelength of 580nm. Calculate the frequency and wave number of yellow light.
4. Calculate the energy of photons which has
a) Light of frequency 3×10^{15} hz and
b) Wavelength of 0.50 nm
5. What is the number of photons of light with wavelength 4000pm which provide 1 joule of energy
6. Read topics Bohr model of an atom

BIOLOGY



Prepare and Submit a Herbarium of any one of Medicinal Plant available in your Area.(25marks)

Instructions :1-The Complete Plant of 1 to 1.5 feet to be used..(Example Tulsi, Neem, Mentha, Marrigold, Wheat)

2-The plant must have roots, leaves, flowers, buds, small branches, fruits.

3-To be dried inside home for 7days.

4-Use Only White Chart Paper full. Size to Prepare the Herbarium.

5- Use good quality gum to paste the complete plant on chart paper.

6- Label various Parts of the Plant with Uppercase and Bold Letters.

7-Mention the Biological Name, Common Name and Family of the Plant.

8-Laminate the sheet by using Transparent Sheets. Use Stapplers /Cello Tape to fix the Lamination sheet

.9-Mention your name, Roll no and class at the bottom part of Herbarium.

10-Decorate it in a decent manner.

PHYSICS



1. Explain motion in one, two and three dimensions.
2. A body covers a circular path of radius R in 10 seconds. Calculate the distance and displacement of the body at the end of 30 seconds and 35 seconds.
3. Difference between velocity and acceleration.
4. A body starts from rest and acquires a velocity 12m/s in 5 seconds. Calculate the acceleration and distance covered by body.
5. What do you mean by position vector and displacement vector?
6. Explain definitions in vector algebra.
7. Derive equations of uniformly accelerated motion by calculus method.

SOLVE ALL QUESTIONS ON A4 SHEETS

Tips



**Revise all the syllabus covered in Virtual Classes.
Show your creativity in your vacation assignments.**



Prevention Measures

Encourage Social Distance
Thoroughly wearing Masks.
Avoid Gatherings.
Boost up your immune system.
Sanitize your hands.

Rbis

Stay safe and blessed