

St. Vivekanand Public School Sadabad

Class: XI SCIENCE

Date: 07-01-2023

S.No	Subject	Questions/Assignment /Paragraphs/Phrase
1	English	<p>Q1. You are Mukul / Mahima of Alps Public School. Your school has organized a debate on "Social Media and It's Effects" and you will be participating in your school. Prepare your views against or in favour of the motion. (120 – 150 words)</p> <p>Q2. "Academic excellence is the only requirement for a successful career." Write a debate either for or against the motion. (120 – 150 words)</p>
2	Maths	<p>Q.1 Find the mean deviation about the mean for the data . x_i : 10 30 50 70 90 f_i : 4 25 28 16 8</p> <p>Q.2 Find the mean deviation about median for the data . 13,17,16,14,11,13,10,16,11,18,12,17</p>
3	Chem	<p>Q1. Use the molecular orbital energy level diagram to show that N_2 would be expected to have a triple bond, F_2, a single bond and Ne_2, no bond.</p> <p>Q2. Describe hybridisation in the case of PCl_5 and SF_6. The axial bonds are longer as compared to equatorial bonds in PCl_5 whereas in SF_6 both axial bonds and equatorial bonds have the same bond length. Explain.</p>
4	Phy	<p>Q.1 The pitch of a sound wave depends upon which one of its following characteristics?</p> <p>Q.2 Length of a string tied to two rigid supports is 20 cm. What is the Maximum wavelength of a stationary wave produced on it .</p> <p>Q.3 Find The temperature at which velocity of sound will be double of its room temperature ($27^\circ C$) value .</p>
5	PHE	<p>Q. 01-Application of Axis and Planes in body movements.</p> <p>Q. 02-Test administration guidelines in physical education and sports.</p>
6	Bio	<p>Q1. What is a mesosome in a prokaryotic cell? Mention the functions that it performs.</p> <p>Q2. Name two cell organelles that are double membrane-bound. What are the characteristics of these two organelles? State their functions and draw labelled diagrams of both.</p> <p>Q3. What are the characteristics of prokaryotic cells?</p>

Principal