

St. Vivekanand Public School Sadabad

Class: XI SCIENCE

Date: 06-01-2023

S.No	Subject	Questions/Assignment /Paragraphs/Phrase
2	Maths	<p>Q.1 A point is in the XY-plane. What can you say about its z-coordinate?</p> <p>Q.2 Find the equation of the set of points P, the sum of whose distances from A(4,0,0) and B(-4,0,0) is equal to 10.</p> <p>Q.3 Using section formula, prove that the three points (-4,6,10), (2,4,6) and (14,0,-2) are collinear.</p>
3	Chem	<p>Q1. Write structures of various carbocations that can be obtained from 2-methylbutane. Arrange these carbocations in order of increasing stability.</p> <p>Q2. What is meant by M-effect. Explain its types with the help of EDG (electron donating groups) and EWD (electron withdrawing groups).</p>
4	Phy	<p>Q.1A particle is undergoing SHM with amplitude 10cm. The maximum speed it achieves is 1m/s. Find the time it takes to reach from the mean position to half the amplitude.</p> <p>Q.2 A particle starts from the extreme position, at $t = 0$, in a SHM. If the time period of motion is 2s & maximum speed is 5m/s, find the equation of motion.</p> <p>Q.3 What is the amplitude of motion for $x = 2\sin(2t) + 4\sin^2 t$?</p>
5	PHE	<p>Q. 01-Explain the Principles of Biomechanics.</p> <p>Q. 02-Explain types of body movements: Flexion-Extension, Abduction-Adduction, Supination - Pronation, Rotation, Circumduction.</p>

Principal