

# St. Vivekanand Public School Sadabad

Class: XI SCIENCE

Date: 10-01-2023

S.No	Subject	Questions/Assignment /Paragraphs/Phrase
1	English	<p>Speech writing</p> <p>Q1. The increasing amount of time spent playing indoor games has been a major cause of decreasing the outdoor appearance of children. With this concern, write a speech to be delivered in the morning assembly in 150-200 words. You are Parag/Pragati.</p>
2	Maths	<p>Q.1 Find a point on the x-axis, which is equidistant from the points (7,6) and (3,4).</p> <p>Q.2 Intersecting the x-axis at a distance of 4 units to the left of origin with slope -2.</p> <p>Q.3 Find equation of the line passing through the point (2,2) and cutting off intercepts on the axes whose sum is 9.</p>
3	Chem	<p>Q1. Write the structural formula of:</p> <p>(a) o-Ethylanisole</p> <p>(b) p-Nitroaniline,</p> <p>(c) 2,3 - Dibromo -1 - phenylpentane</p> <p>(d) 4-Ethyl-1-fluoro-2-nitrobenzene.</p> <p>Q2. In which C–C bond of <math>\text{CH}_3\text{CH}_2\text{CH}_2\text{Br}</math>, the inductive effect is expected to be the least?</p> <p>Q3. Write structures of various carbocations that can be obtained from 2-methylbutane. Arrange these carbocations in order of increasing stability.</p>
4	Phy	<p>1. A steel wire has a length of 12 m and a mass of 2.10 kg. What will be the speed of a transverse wave on this wire when a tension of <math>2.06 \times 10^4\text{N}</math> is applied?</p> <p>2. Show that when a string fixed at its two ends vibrates in 1 loop, 2 loops, 3 loops and 4 loops, the frequencies are in the ratio 1 : 2 : 3 : 4.</p>
5	PHE	<p>Q. 01- Define about Pranayama.</p> <p>Q. 02-Write and Perform harvard step test at your home.</p>

6	Biology	<p><b>Q1. Describe the events taking place during interphase.</b></p> <p><b>Q2. What is G<sub>0</sub> (quiescent phase) of cell cycle?</b></p> <p><b>Q3. Name the stage of cell cycle at which one of the following events occur:</b></p> <ul style="list-style-type: none"><li><b>(i) Chromosomes are moved to spindle equator.</b></li><li><b>(ii) Centromere splits and chromatids separate.</b></li><li><b>(iii) Pairing between homologous chromosomes takes place.</b></li><li><b>(iv) Crossing over between homologous chromosomes takes place.</b></li></ul>
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**Principal**