

# St. Vivekanand Public School Sadabad

Class: XI SCIENCE

Date: 04-01-2023

S.No	Subject	Questions/Assignment /Paragraphs/Phrase
1	English	Write biography of 4 writers ( 2 from Snapshots and 2 from Hornbill ) and one poet of 2nd term with their photographs on A4 size paper with introductory page.
2	Maths	1. Find the centre and radius of the circle . $(x + 5)^2 + (y - 3)^2 = 36$ 2. Find the co-ordinate of the focus, axis of the parabola, the equation of the directrix and the length of the latus rectum : $x^2 = 6y$ 3. Find the co-ordinates of the vertices the length of major axis ,minor axis,the eccentricity and the length of the latus rectum of the ellipse $36x^2 + 4y^2 = 144$
3	Chem	Q1. Draw the resonance structures for the following compounds. Show the electron shift using curved-arrow notation: (a) $\text{CH}_3\text{CH}=\text{CHCHO}$ (b) $\text{C}_6\text{H}_5-\text{CHO}$ Q2. Explain the terms inductive. Which electron displacement effect explain the following correct orders of acidity of the carboxylic acids? (a) $\text{CH}_3\text{CH}_2\text{COOH} > (\text{CH}_3)_2\text{CHCOOH} > (\text{CH}_3)_3\text{CCOOH}$ (b) $\text{Cl}_3\text{CCOOH} > \text{Cl}_2\text{CHCOOH} > \text{ClCH}_2\text{COOH}$
4	Phy	Q.1 If the length of simple pendulum is tripled , what will be it's new time period in terms of original period T? Q.2 The ratio of frequencies of two pendulums are 2:3, find the ratio in their lengths. Q.3 What is the displacement of an SHM doing oscillation when K.E.=P.E.(amplitude = 4cm)
5	PHE	Q.01- What do you mean by Team Cohesion and Sports. Q.02-Explain about the Principles of Sports Training. Q.03-What do you mean by Doping and its disadvantages.
6	Biology	Q.(1) Define venation? What are two types of venations? Q. (2) What is inflorescence? What are its two types?

Principal