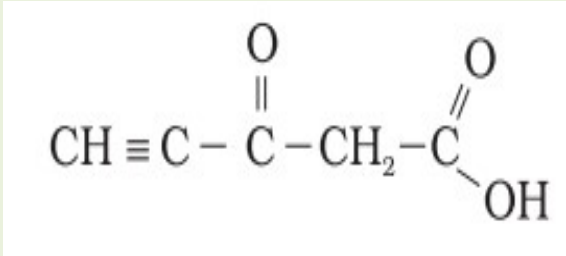


St. Vivekanand Public School Sadabad

Class: XI SCIENCE

Date: 09-01-2023

S.No	Subject	Questions/Assignment /Paragraphs/Phrase
1	English	<p>Answer the following questions.</p> <ol style="list-style-type: none">1. Describe in brief how the grandmother spent half-an-hour with the sparrows. How did she feel then? Answer in the context of The Portrait of a Lady.2. How can you infer that the father wishes his son to remain at home with him? {Father to Son}3. What was the outcome of the interview between Mrs. Dorling and the narrator? Answer in the context of The Address.4. Give a character sketch of Tutankham.5. For doctors, the duty towards the patients is foremost, irrespective of their own personal affairs. Discuss with reference to the chapter, Birth.
2	Maths	<p>Q.1 Find the derivative of $f(x) = x^3$ using the first principle.</p> <p>Q.2 Determine the derivative of $\frac{\cos x}{1 + \sin x}$</p> <p>Q.3 Find the limit : $\lim_{x \rightarrow 3} [(x^n - 3^n)/(x - 3)]$</p> <p>Q.4 Evaluate the limits: (i) $\lim_{x \rightarrow 0} \frac{\sin 3x}{5x}$ (ii) $\lim_{x \rightarrow 0} \frac{\sin^2 4x}{x^2}$</p>
3	Chem	<p>Q1. Using molecular orbital theory, compare the bond energy and magnetic character of O_2^+ and O_2^- species</p> <p>Q2. Predict the hybridization of each carbon in the molecule of organic compound given below. Also indicate the total number of sigma and pi bonds in this molecule.</p> <div style="text-align: center;"></div>
4	Phy	<p>Q.1 A spring of force constant 800N/m has an extension of 5cm. What is the work done in increasing the extension from 5cm to 15cm?</p>

		<p>Q.2 At a time when the displacement is half the amplitude, what fraction of the total energy is kinetic and what fraction is potential in S.H.M?</p> <p>Q.3 A particle is executing SHM of amplitude A. At what displacement from the mean position, is the energy half kinetic and half potential?</p>
5	PHE	<p>Q. 01- Prepare Asanas according to position.</p> <p>Q. 02-Learn Yogic kriyas.</p>
6	Biology	<p>Q1. State the position and role of various kinds of meristems.</p> <p>Q2. Why are phloem and xylem known as complex tissues?</p> <p>Q3. What is the stomatal apparatus? With the help of diagrammatic representation describe the structure of stomata and label its parts.</p>

Principal