

KERALA PUBLIC SCHOOLS
HOME ASSIGNMENT (16th May to 20th May 2020)



CLASS	SUBJECT	TOPIC / CHAPTER	MODULE / ASSIGNMENT	REFERENCE LINKS
Std. X	English Language	Synthesis Of Sentences	<p><u>Assignment 1</u></p> <p><u>Combine each of the following sets of sentences into one compound sentence:</u></p> <ol style="list-style-type: none"> 1. Tom plays hockey. He plays cricket. 2. He knows English. He also knows French. 3. Jane is quite friendly. Her brother is rather reserved. 4. There was little hope of success. I tried hard. 5. One threw a tomato. Another threw an egg. 6. He wrote the letter. He sent it through the messenger. 7. Winston Churchill was a great statesman. He was a great writer. 8. Wise men welcome advice. Fools scorn advice. 9. He may see your point. He is a reasonable man. 10. I tried my best. I couldn't pass the test. <p>Answers</p> <ol style="list-style-type: none"> 1. Tom plays hockey as well as cricket. 2. He knows English as well as French. 3. Jane is quite friendly whereas her brother is rather reserved. 4. There was little hope of success nevertheless I tried hard. 5. One threw a tomato and another an egg. 6. He wrote a letter and sent it through the messenger. 7. Winston Churchill was not only a great statesman but also a great writer. 8. Wise men welcome advice whereas fools scorn it. 9. He may see your point for he is a reasonable man. 10. I tried my best; still I couldn't pass the test. 	<p>https://youtu.be/In84BMDxy_g</p>

		Preposition	<p><u>Assignment 1</u></p> <p>Fill in the blanks with appropriate prepositions using the given alternatives:-</p> <p>(i) The lion was killed.....the hunter..... a sword, (in, on, by, with) (ii) Father divided his property.....four sons.(between, among, of, in) (iii) He has been living in this house..... 1985. (for, since, in, on) (iv) I shall return..... a month. (in, of, on, for) (v) The Ramayana is lying..... the table. (in, of, on, for) (vi) We shall finish this work. 5 p.m. today. (in, by, on, at) (vii) Send me letters..... this address. (by, in, to, on) (viii) You should listen.....what your parents say. (among, in, to, between) (ix) Sita writes.....the notebook. (with, on, in, at) (x) He did not listen..... my advice. (at, to, in, on)</p> <p>Answer: i) by, with (ii) among (ii) since (iv) in (V) on (vi) by (vii) on (viii) to (ix) in (x) to..</p>	https://youtu.be/HRZZIwIHeUM
English Literature	Merchant Of Venice Act 3 Scene II Line 152 – 177		<p>1. Read the passage and answer the questions that follow:</p> <p>Portia: You see me Lord Bassanio where I stand But she may learn.</p> <p>i) “You see me Lord Bassanio where I stand, such as I am.” What does Portia want to say in the above words? Ans: Portia here wants to say that she stands here before Bassanio with whatever shortcomings and merits she has and she humbly offers herself to Bassanio.</p> <p>ii) How is Portia unambitious in her wishes for herself? Ans: Portia tells Bassanio, ”Though for myself alone I would not be ambitious in my wish, to wish myself much better.”</p>	https://youtu.be/vA4hLuFSmts

			<p>iii) What does she wish to be for the sake of Bassanio? Why does she want to be so? Ans: For the sake of Bassanio Portia wishes to be trebled twenty times herself, a thousand times more fair and ten thousand times more rich. She wants to be so in order to stand high in Bassanio's account.</p> <p>iv) What does Portia claim to be? Is she really an unlessoned girl? Ans: Portia claims to be unlessoned, unschooled and unpractised girl. By saying so Portia tries to prove herself a very humble girl. She undervalues herself to keep with her essential character as a dignified lady. No, she is not an unlessoned girl. Her worth is yet to be revealed.</p>	
		<p>Merchant Of Venice Act 3 Scene II Line 178 - 211</p>	<p>1. Read the passage given below and answer the questions that follow: Gratiano : I thank your lordship, you have got me one..... Achiev'd her mistress.</p> <p>i) To whom is Gratiano addressing as 'your lordship'? What is the situation? Ans : Gratiano is addressing to Bassanio as 'your lordship'. The situation is that Bassanio has just chosen the right casket and found the portrait of Portia along with a scroll in the casket announcing his success. Bassanio and Portia have expressed their love and commitment for each other. Portia had gifted a ring to Bassanio as a token of her love and made him promise that he would never lose it. After this Nerissa wishes good luck to the couple and Gratiano declares his love for Nerissa and informed that she had promised to marry him if Bassanio was lucky to win her mistress through the lottery of the caskets.</p> <p>ii) 'You have got me one.' What has the other person got the speaker? Ans : After congratulating Bassanio and Portia, Gratiano expresses his wish to get married and seeks permission that when they celebrate their marriage, he too may be allowed to marry. Bassanio readily accepts his</p>	<p>https://youtu.be/vA4hLuFSmts</p>

			<p>suggestion provided he can find a wife for himself. Gratiano then informs that he has found a wife for himself. He further continued that Bassanio got Portia as his wife, thus indirectly gave Gratiano his wife in Nerissa.</p> <p>iii) Explain....”Intermission no more pertains to me my lord than you.” Ans : Gratiano here proves that he is as smart and quick as his master, Bassanio by saying,”My eyes, my Lord,can look as swift as yours : You saw the mistress, I beheld the maid.” In short like Bassanio to neglect or miss an opportunity is against his nature. So, he caught the time by forelook and achieved success.</p> <p>iv) How did the fortune of two persons depend on the caskets? Ans : The fortune of both Bassanio and Gratiano depended on the right choice of the casket made by Bassanio. Bassanio had the wisdom and good luck to choose the laden casket which contained the portrait of Portia. His efforts were rewarded and he was going to marry Portia. It was only after the success of Bassanio in choosing the right casket, Gratiano discloses his agreement with Nerissa that she would marry him only if his master, Bassanio could choose the right casket. He then wished to marry Nerissa.</p>	
		<p>Merchant Of Venice Act 3 Scene II Line 212 – 244</p>	<p>1. Read passage given below and answer the questions that follow : Gratiano : But who comes here? What, and my old Venetian friend, Salerio?</p> <p>i) Who all came there and why? Ans :Lorenzo, Jessica and Salerio came there. Lorenzo’s purpose was not to meet Bassanio and Gratiano but when he met Salerio on the way, he was entreated by him to come along with him. Jessica being his wife accompanied him. Salerio was commende by Signior Antonio to Bassanio.</p> <p>ii) How did Bassanio welcome them? Ans : Bassanio welcomed them with an open heart. He said, “ If that the youth of my new interest here have power to bid ou welcome, by your</p>	<p>https://youtu.be/vA4hLuFSmts</p>

			<p>leave sweet Portia, I bid my friends and countrymen welcome.”</p> <p>iii) On being asked about Antonio what was the reply given by Salerio? Ans : When Bassanio requested Salerio to tell him how his good friend was, Salerio replied,” Not sick, my lord, unless it be in mind: not well, unless in mind: his letter will show you his estate.”</p>	
		<p>Merchant Of Venice Act 3 Scene II line 245 - 287</p>	<p>1. Read the passage given below and answer the questions that follow: Bassanio : Here are few unpleasant words..... Of merchant marring rocks.</p> <p>i) What did Bassanio say about the wealth when he first told Portia about his love? Ans : When Bassanio first imparted his love to Portia, hr freely told her that all the wealth he had ran in his veins and he was a gentleman.</p> <p>ii) What was Bassanio’s actual financial position according to his own confession? Ans : Basanio was not a rich person. He managed a lavish lifestyle by borrowing money from his friend aantonio. His expenditure was more than his income. Even in order to present himself as a suiter in front of Portia, he took help from his friend Antonio who took a loan of three thousand ducats from his enemy Shylock by signing a bond and becoming a security for Bassanio.</p> <p>iii) How does Bassanio compare the words written in the letter? Ans : Bassanio compared the paper of the letter with the body if his friend and every word in it as a gaping wound issuing life bood.</p> <p>iv) What information does the passage give about the losses of Antonio? Ans : According to the passage, Antonio hath all his ventures fail’d. Not even one hit the shore. Not even one vessel scape the dreadful touch of merchant-marring rocks.</p>	<p>https://youtu.be/Rt4kQUYreW8</p>
	MATHS	Ch-18: Trigonometric	<p>Module-1(Revision) Q.1. Prove that</p>	<p>https://youtu.be/EJJIxUy0MxY</p>

	Identities	<p> $(\operatorname{cosec} A - \sin A)(\sec A - \cos A)(\tan A + \cot A) = 1$ Q.2. Prove that: $(\cos A / (1 + \sin A)) + \tan A = \sec A$ Q.3. Prove that: $(1 + \cot A - \operatorname{cosec} A)(1 + \tan A + \sec A) = 2$ Q.4 If A is an acute angle & $\tan A = 8/15$, find the value of $\sec A + \operatorname{cosec} A$. </p> <p>Module-2(Revision)</p> <p>Q.1. Find the value of $\cos 65^\circ \sin 25^\circ + \sin 65^\circ \cos 25^\circ$.</p> <p>Q.2. Without using trigonometrical tables evaluate- $\sin^2 28^\circ + \sin^2 62^\circ + \tan^2 38^\circ - \cot^2 52^\circ + 1/4 \sec^2 30^\circ$.</p> <p>Q.3. Find the value of $3 \tan^2 26^\circ - 3 \operatorname{cosec}^2 64^\circ$.</p> <p>Q.4. If A is an acute angle, then find the value of $\sin A \cdot \cos(90^\circ - A) + \cos A \cdot \sin(90^\circ - A)$.</p>	
	Ch-4 Linear Inequations	<p>Module1-(Revision)</p> <p>Q.1. Solve the inequation, write down the solution set & represent it on the number line: $-2 + 10x \leq 13x + 10 < 24 + 10x, x \in \mathbb{Z}$.</p> <p>Q.2 Find the solution set of the inequation : $x + 5 \leq 2x + 3, x \in \mathbb{R}$. Graph the solution set on number line.</p> <p>Q.3. Find the range of values of x, which satisfy $7 \leq -4x + 2 < 12, x \in \mathbb{R}$. Graph these values of x on the real number line.</p> <p>Module2-(Revision)</p> <p>Q.1. Solve the inequation: $6x - 5 < 3x + 4, x \in \mathbb{I}$.</p>	<p>https://youtu.be/jx-LEJt2D7k</p>

		<p>Q.2 Find positive integers which are such that if 6 is subtracted from 5 times the integer then the resulting number cannot be greater than four times the integer.</p> <p>Q.3. Find three smallest consecutive natural numbers such that the difference between one –third of the largest and one fifth of the smallest is atleast 3.</p>	
Physics	Work, Energy & Power	<p>Module 1: Work Measurement of Work</p> <p>Answer the Following:-</p> <ol style="list-style-type: none"> 1. Define Work. When is work said to be done by a force. 2. How is the work done by a force measured when <ol style="list-style-type: none"> i. Force is in the direction of displacement. ii. Force is at an angle to the direction of displacement. 3. A body is acted upon by a force. State two conditions when the work done is zero. 4. What are the SI & CGS units of work? How are they related? Establish a relationship. 5. A boy of mass ‘m’ climbs up the stairs of vertical height ‘h’. <ol style="list-style-type: none"> i. What is the work done by the boy against the force of gravity? ii. What would have been the work done if he uses a lift in climbing the same vertical height. 6. A satellite revolves around the Earth in a circular orbit. What is the work done by the satellite? Give reason. 7. Define the term energy & its SI units. 8. Differentiate between Work & Power. <p>State two factors on which power spent by a source depends. Explain with examples.</p>	<p>https://youtu.be/r0zSjQWqK-I</p>
		<p>Module 2: Different forms of Energy.</p> <p>Answer the following:</p> <ol style="list-style-type: none"> 1. What are the two forms of Mechanical Energy? 2. What are the two forms of potential Energy? Name the energy possessed by 	

			<p>a wound up water spring.</p> <ol style="list-style-type: none"> 3. What is meant by the gravitational potential energy? Derive expression for it for a body placed at a height above the ground. 4. What do you understand by the Kinetic Energy of a body? 5. State the work energy theorem. 6. When an arrow is shot from a bow, it has kinetic energy in it. Explain briefly from where it gets its kinetic energy. 7. State the energy changes in the following cases while in use. <ol style="list-style-type: none"> a. A loudspeaker b. A steam engine c. Microphone d. Washing machine e. A solar cell f. Burning coal g. Biogas burner. 	
			<p>Module 3: Conservation of Energy</p> <p>Answer the following:</p> <ol style="list-style-type: none"> 1. State the principle of conservation of energy 2. Name two examples in which the mechanical energy of a system remains constant. 3. A body falls freely under gravity from rest. Name the kind of energy it will possess. <ol style="list-style-type: none"> a. At the point from where it falls b. While falling c. On reaching the ground. 4. Name the type of energy possessed by the bob of a simple pendulum when it is at <ol style="list-style-type: none"> a. Extreme position 	

		<p>b. The mean position c. Between the mean & extreme position.</p> <p>5. What do you mean by degradation of energy?</p>	
Chemistry	Chemical Bond Module:1 Coordinate Bond	<p>ASSIGNMENT:</p> <ol style="list-style-type: none"> 1. What is the name of coordinate bond. 2. What do you understand by shared pair and lone pair? 3. Write an example of co-ordinate bonding. 4. Write the two properties of coordinate compounds. 	https://byjus.com/jee/co-ordinate-bond/
	Module:2 Redox Reaction (Revision)	<p>ASSIGNMENT:</p> <ol style="list-style-type: none"> 1. What do you understand by dipole molecule? Give one example 2. _____ is the strongest oxidizing agent. 3. _____ is the strongest reducing agent in the solution. 4. _____ is the strongest reducing agent in the absence of water. 5. The substances which act as oxidizing as well as reducing agents are _____ <p>NOTE:</p> <ol style="list-style-type: none"> 1. Solve all the questions in your notebook 2. Solve all the board questions in your notebook. 	https://youtu.be/TOdHMORp4is https://byjus.com/jee/redox-reactions/
Biology	Ch 2- Structure Of Chromosomes, Cell Cycle And Cell Division Ch 4- Absorption By Roots Ch 5- Transpiration	<p><u>16.5.20</u></p> <p>Module 1</p> <p>Q1. Name the following:</p> <ol style="list-style-type: none"> i. The exchange of the chromatin parts between the maternal and paternal chromatids of a pair of homologous chromosomes during meiosis. ii. The process that enables the passage of the water from the soil into the root hairs iii. Droplets of water coming out through the margins of the leaves iv. The repeating components of DNA strand lengthwise v. The alteration of the genetic material that can be inherited. 	

- vi. The process of the uptake of mineral ions against the concentration gradient using energy from the cell
- vii. The division of the nucleus
- vii. An apparatus that measures the rate of water uptake in a cut shoot due to transpiration
- viii. The wax-like layer on the epidermis of the leaves which reduces transpiration
- ix. The complex consisting of a DNA strand and a core of histone
- x. The condition in which a pair of chromosomes carry similar alleles of a particular character

Q2. Give the locations of the following structures:
 i. Centromere ii. Hydrogen bond iii. Hydathodes

Q3. Give the functions of the following:
 i. Guard cells

20.5.20
Module 2:
 Q1. Define:
 i. Root pressure ii. Guttation iii. Bleeding iv. Mutation

Q2. Give reason:
 i. Marine fish when placed in tap water bursts.
 ii. Plants growing in the fertilized soil are often found to wilt if the soil is not adequately watered.

Q3. Write the differences between on the basis of what mentioned in the bracket:
 i. Active transport & Diffusion [significance in plants]
 ii. Diffusion & Osmosis [definition]
 iii. Hypotonic solution and Hypertonic solution[condition of a plant cell when placed in them]
 iv. Turgor pressure & Wall pressure[explain]

Q4. Answer the following:
 i. State the law of Dominance.
 ii. What are the two genetic disorders found in males?
 iii. Explain monohybrid cross
 iv. Draw a duplicated chromosome and label it.

History and Civics	Factors leading to the Growth of Nationalism and Foundation Indian National Congress	<p><u>Answer the following questions.</u></p> <ol style="list-style-type: none"> 1) What were the immediate objectives of the Indian National Congress? 2) What was the Nationalists perspective as regards Curzons' real motives behind the Partition of Bengal 1905? 3) Why the Congress got split in 1907 at Surat? 4) What were the objectives and activities of East India Association founded in 1866? 5) What were Raja Rammohan Roy's views on the liberty and freedom of press? <p>NOTE: Read the chapter thoroughly before answering the questions and try to write your answers in points.</p>	https://youtu.be/d801drXzhco
Geography	Climate Of India	<p>Answer the following questions:-</p> <ol style="list-style-type: none"> Q1) what type of climate is experienced by the Indian sub continents? Q2) what are the factors effecting India? Q3) how does the northern wall of Himalayas effect the climate of India? Q4) name the different seasons of the country along with their months? Q5) write short note on : <ol style="list-style-type: none"> (A) Loo (B) Kalbaisakhi (C) Mangoshower Q6) What is meant by burst of monsoon? Q7) Differentiate between south west monsoon and north east monsoon. Q8) define: <ol style="list-style-type: none"> (A) October heat. (B) Western disturbance. Q9) give reasons: <ol style="list-style-type: none"> (A) Patna gets heavier rainfall than Agra. (B) Mawsynram receives the highest amount of rainfall in the world. Why? (C) Tamilnadu coastal region receives most of the rain in winter. Why? (D) There is a very high annual range of temperature in the Thar desert. (E) Why is the western part of Rajasthan is dry inspite of having Aravali hills. 	<p>https://youtu.be/I7bhe1X7oFY</p> <p>https://youtu.be/pTrJC7_nKkA</p> <p>https://youtu.be/5Ts0rLh1AX4</p>

Commercial Studies	E-Commerce	<p>I. Answer in brief: Q1. Define E-Commerce. Q2. State two advantages of E-Commerce. Q3. What is online shopping? State its two advantages. Q4. Give four examples of electronic wallet. Q5. State the benefits of E-Commerce to organisation.</p> <p>II. Answer in detail: Q1. Explain the benefits of E-commerce to consumers. Q2. State five business applications of E-commerce. Q3. What are the two categories of E-commerce? Explain with example.</p>	https://youtu.be/oNVfnaYIPh4 https://youtu.be/Y70XM9nzHe0
Economic Application	Ch 3 :Elasticity of Demand and Supply Module No.1:Meaning and Types of Elasticity of Demand	Answer the following short questions. Q1. Define Price Elasticity of Demand. Q2. The price elasticity of demand for goods having close substitutes is relatively high. Give reason. Q3. State the formula for calculating the Price Elasticity of Demand using the Percentage method. Q4. With the help of a diagram explain the relatively inelastic demand for a commodity. Q5. Mention the degree of Price Elasticity of demand for the following goods. (i) cosmetics (ii) school uniform (iii) Air Conditioner (iv) medicine. Q6. Explain briefly the factors on which the price elasticity of demand for a commodity depends. Q7. Practical Exercises (i) Price of a good falls from Rs. 10 to Rs. 8. As a result, the demand rises from 80 units to 100 units. Find out price elasticity of demand by percentage method. (ii) The quantity demanded of a commodity at a price of Rs. 8 per unit is 500 units. Its price falls to Rs. 6 and as a result its quantity demanded rises to 600 units. Calculate its price elasticity.	https://youtu.be/-ONgdNLlame

		<p>(iii) As a result of increase in the milk price from Rs.20 per litre to 25 per litre, the supply of milk increases from 9000 litres to 11000 litres. Calculate the price elasticity of supply.</p> <p>(iv) Given the following information:</p> <table border="1"> <thead> <tr> <th>Price (Rs.)</th> <th>Quantity Supplied (units)</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>5500</td> </tr> <tr> <td>5</td> <td>5000</td> </tr> <tr> <td>4</td> <td>4500</td> </tr> <tr> <td>3</td> <td>3000</td> </tr> </tbody> </table> <p>Calculate the price elasticity of supply when:</p> <p>(a) Price rises from 5 to 6 (b) Price rises from 3 to 4</p> <p>Q8. Discuss the importance of the concept of elasticity of demand.</p>	Price (Rs.)	Quantity Supplied (units)	6	5500	5	5000	4	4500	3	3000	
Price (Rs.)	Quantity Supplied (units)												
6	5500												
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	Module No.2: Income Elasticity of Demand And Cross Elasticity of Demand	<p>Q9. Define Income Elasticity of Demand.</p> <p>Q10. Define Cross Elasticity of Demand</p> <p>Q11. What will be the income elasticity of demand in the following situations? (a) normal goods (b) inferior goods (c) inexpensive goods.</p> <p>Q12. Explain when is Cross Elasticity is (a) positive (b) negative (c) zero</p>	https://youtu.be/i7O4CriwvrY										
	Module No.3: Price Elasticity of Supply.	<p>Q13. Define Unitary Elastic Supply.</p> <p>Q14. Explain briefly the impact of the cost of production on elasticity of Supply.</p> <p>Q15. Explain with the help of a diagram the following: (a) Inelastic supply (b) Elastic supply</p> <p>Q16. Why is supply elasticity higher in the long run than in the short run?</p> <p>Q17. Define elasticity of supply and explain any four of its determinants.</p>	https://youtu.be/96uuYGmT06Y										

Rakshmi

DIRECTOR ACADEMICS