



## Golden Days Universal School, Ozar

### Assignment-II (Session 2020-21)

**Class: X**

**Subject: Maths**

**Q.1 Solve the following system of quadratics graphically:-**

(1)  $2x + 2y = 2$

$x - 2y = 8$

(3)  $x - y + 1 = 0$

$3x + 2y - 12 = 0$

(5)  $2x - 3y = 1$

$3x - 4y = 1$

(2)  $3x + 2y = 4$

$2x - 3y = 7$

(4)  $2x + 3y = 4$

$3x - y = -5$

(6)  $2x - 5y + 4 = 0$

$2x + y - 8 = 0$

**Q.2 Solve for x and y (elimination method):-**

(1)  $ax + by - a + b = 0$

$bx - ay - a - b = 0$

(3)  $\sqrt{2}x - \sqrt{3}y = 0$

$\sqrt{5}x + \sqrt{2}y = 0$

(5)  $\frac{4}{x} + 3y = 14$

$\frac{3}{x} - 4y = 23$

(2)  $0.4x - 1.5y = 6.2$

$0.3x + 0.2y = 0.9$

(4)  $47x + 31y = 63$

$31x + 47y = 15$

(6)  $\frac{2}{x} + \frac{3}{y} = 13$

$\frac{5}{x} - \frac{4}{y} = -2$

**Q.3 Solve for x and y (cross multiplication method):-**

(1)  $2x + 3y = 17$

$3x - 2y = 6$

(2)  $4x - 7y + 28 = 0$

$5y - 7x + 9 = 0$

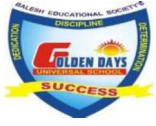
**Q.4 Solve for x and y (follow any method):-**

(1)  $x + y = 8$

$2x - 3y = 6$

(2)  $x - y = 3$

$3x - 2y = 10$



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### Assignment-II (Session 2020-21)

**Class: X**

**Subject: Political Science**

**Topic: Power Sharing( 3M Question)**

(Q1) 'Sharing of power makes a country more powerful and united 'justify the statement?

(Q2) Describe any 3 majoritarian measures taken by the Srilankan govt to establish Sinhala supremacy?

(Q3) Bring out any two sharp contrasts between Belgium and Srilankan democracies?

(Q4) What is the official religion of Srilanka?

(Q5) Explain any three ways by which Belgium has accommodated the existing regional differences and cultural diversities.

(Q6) Sharing of power makes a country more powerful and united. Do you agree with the statement? Why?

(Q7) Describe any 3 provision of the act which was passed in Sri Lanka in 1956 to establish Sinhala Supremacy?

(Q8) How have Belgium and Sri Lanka dealt with the question of power sharing differently?

(Q9) Explain 2 ways as to why power sharing is desirable?

(Q10) Explain how Belgium was able to solve her ethnic problems?

(Q11) Explain how power is shared among between different organs of govt ?

(Q12) What is majoritarianism? How has it increased the felling of alienation among Sri Lankan Tamils? Explain with examples?

(Q13) Describe the demand if Sri Lankan Tamils .How did they struggle for their demand?

(Q14) Existence of Dutch and French speaking people in Belgium created an ethnic tension .Elaborate the statement?

(Q15) What is meant by Tamil Elam?

(Q16) How and when was Sinhala recognized as the official language of Srilanka?



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### Assignment-II (Session 2020-21)

**Class: X**

**Subject: Science**

**Topic: Life Processes**

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**Q) ANSWER THE FOLLOWING QUESTIONS IN DETAIL FOR THE HUMAN RESPIRATORY SYSTEM:**

- (1) What are the functions of Lungs?
- (2) Explain the overall process of respiration.
- (3) Differentiate between left lung and right lung of human.
- (4) State the functions of the following components of transport system. 1) Blood 2) Lymph
- (5) Why do the walls of a trachea not collapse when there is less air in it?
- (6) How are lungs designed in human beings to maximize the area for exchange of gases?
- (7) "The breathing cycle is rhythmic whereas exchange of gases is a continuous process" justify this statement.
- (8) Mention the three kinds of cells present in blood. Write one function of each.
- (9) What is ATP? What is its use?
- (10) How does smoking affect the health of a person?
- (11) Write the glucose breakdown pathway in case of aerobic respiration.
- (12) Why do we get cramps during vigorous muscular activity?
- (13) Write the reaction that occurs when glucose breaks down anaerobically in yeast.
- (14) Write the mechanism by which fishes breathe in water.
- (15) Name the balloon-like structures present in lungs. List its two functions.
- (16) Name the respiratory pigment and write its role in human beings.
- (17) Draw a labeled diagram of the respiratory system of human beings with diaphragm.
- (18) List four conditions required for efficient gas exchange in an organism.
- (19) Why is the rate of breathing in aquatic organisms much faster than in terrestrial organisms?
- (20) Plants have low energy as compared to animals, explain.



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### Assignment-II (Session 2020-21)

**Class: X**

**Subject: English**

**(Q1) Write a friendly letter to someone you know that tells about a trip you have taken, or would like to take, to a lost city. Make sure each sentence contains a subject and a predicate. Identify the complete and simple subjects and predicates in each sentence.**

**(Q2) Combine each set of sentences. Use a comma and a conjunction in the compound sentence.**

(1) Tic Tac Toe has been played in the United Kingdom for hundreds of years. There it is called Noughts and Crosses.

(2) A.S. Douglas was the first to put Noughts and Crosses on a software program. That was way back in 1949!

(3) In 1956, Noah and Joe McVicker invented play dough. It was promoted as a wallpaper cleaner first.

(4) Joe realized the child-safe type of clay would make a great toy. He became a millionaire almost overnight.

(5) Over 700 million pounds of play dough have been sold since it was first marketed. The formula is still a secret.

**(Q3) Write the plural form of each singular noun below.**

(1) mouse (2) rodeo (3) potato (4) ox (5) concerto (6) silo (7) wolf (8) self  
(9) child (10) moose (11) headquarters (12) knife (13) ratio (14) mix (15) goose