



Golden Days Universal School, Ozar

Assignment-III (Session 2020-21)

Class: X

Subject: Maths

(Q.1) Solve the following quadratic equations by factorization:

(1) $x^2 - 14x + 24$

(2) $4\sqrt{3}x^2 + 5x - 2\sqrt{3} = 0$

(3) $\frac{2}{x^2} - \frac{5}{x} + 2 = 0$

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

(5) $\frac{x+3}{x+2} = \frac{3x-7}{2x-3}$

(6) $\frac{x+1}{x-1} - \frac{x-1}{x+1} = \frac{5}{6}; x \neq -1, 1$

(Q.2) Solve $12x^2 + 5x - 3 = 0$ by quadratic formula

(Q.3) Solve $\sqrt{3}x^2 + 11x + 6\sqrt{3} = 0$ by quadratic formula

(Q.4) If the discriminant of quadratic equation $6x^2 - bx + 2 = 0$ is 1. Then find the value of b.

(Q.5) Find the nature of roots of the following quadratic equations. If real roots exist, then also find the roots.

(1) $4x^2 + 12x + 9 = 0$

(2) $3x^2 + 5x - 7 = 0$

(2) $7y^2 - 4y + 5 = 0$

(Q.6) Find the discriminant of quadratic equation $x^2 - 4x + 1 = 0$

(Q.7) Solve the following

(1) $\frac{1}{x+4} - \frac{1}{x-7} = \frac{11}{30}; x \neq -4, 7$

(2) $\frac{4}{x} - 3 = \frac{5}{2x+3}$

(3) $\frac{1}{x+3} + \frac{1}{2x-1} = \frac{11}{7x+9}$

(4) $\frac{x-1}{x-2} + \frac{x-3}{x-4} = 3\frac{1}{3}$

(5) $2\left(\frac{2x-1}{x+3}\right) - 3\left(\frac{x+3}{2x-1}\right) = 5$

(Q.8) Show that each of the following equations has real roots, and solve each by using quadratic formula:

(1) $6x^2 + 7x - 10 = 0$

(2) $2x^2 - 9x + 7 = 0$

(3) $x^2 - 4x - 1 = 0$

(4) $x^2 - 6x + 4 = 0$



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Assignment-II (Session 2020-21)

Class: X

Subject: Sanskrit

- अधोलिखितानि शब्दानां पर्यायपदं लिखत कंठस्यं च कुरुत ।

पितामहः	पितुः पिता	पिता के पिता
सहस्रदीधितिः	सूर्यः	सूर्य
कण्ठाश्लेषस्य	कण्ठे आश्लेषस्य	गले लगाने का
परीष्वज्य	आलिङ्गनं कृत्वा	आलिङ्गन करके
विचिन्त्य	विचार्य	विचार करके
अध्यसितुम्	उपवेष्टुम्	बैठने के लिए
सव्यवधानम्	व्यवधानेन सहितम्	रुकावट सहित
अध्यास्यताम्	उपविश्यताम्	बैठिये
हिमकरः	चन्द्रः	चन्द्रमा
पशुपतिः	शिवः	शिव
स्वगतम्	आत्मगतम्	मन हि मन
संवृत्तौ	संजातौ	हो गये
प्रतिवचनम्	उत्तरम्	उत्तर
सोदायौ	यमली	सगे भाई
उदात्तरम्यः	अत्यन्तः रमणीयः	अत्यधिक मनोहर
नामधेयम्	नाम	नाम



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Assignment-III(Session 2020-21)

Class: X Subject: Economics Ch: Development 1Mark Questions

- (Q1) Literacy rate measures the proportion of literate popular in which age group ?
- (Q2) What is the most common indicator for measuring economic development of a country?
- (Q3) Why do some people oppose dams? Give one reason.
- (Q4) What do you mean by IMR and state its full form?
- (Q5) What are material and non-material goals?
- (Q6) What do you mean by per-Capita income?
- (Q7)What do you mean by HDI?
- (Q8) What was the literacy rate in Bihar in 2011?
- (Q9)What other goals included in the development goal beside having better income?
- (Q10) What is the most common method of measuring the economic development of a country?
- (Q11) What is UNDP?
- (Q12)Why do different people have different notion of development?
- (Q13) What is sustainable development ?
- (Q14) What is national income?
- (Q15)What is net attendance ratio?
- (Q16) What is life expecting at birth and gross enrolment ratio?
- (Q17) What is development?
- (Q18) For how long would the crude oil reserves of the world last
- (Q19) What was the IMR in Punjab in 2003?
- (Q20) Which area of the country has largest crude of reserves?



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Assignment-III (Session 2020-21)

Class: X

Subject: English

Q.1. Rearrange the following words/phrases to form meaningful sentences.

- (a) work and play/things/different/parents see/as two
- (b) Is a/of time/they/waste/think/that playing
- (c) important/games/studies/are as/as
- (d) a student/to both/proper/should/attention/pay
- (e) can/life/only/succeed/he/in/then
- (f) beautiful/Masha/dog/is a/young
- (g) praised/she/be/to/likes
- (h) policeman/group/works/of/with a/she
- (i) rains/before/it/must/up/pick/the clothes/from the/clothesline/you
- (j) you/must/always/be/so/formal?
- (k) natural/to/scared/be/of/thunderstorm/it/is
- (l) never/himself/large/solutions/economic/with/Gandhiji/political/or/contented
- (m) backwardness/wanted/immediately/cultural/Gandhiji/and/social/seeing/the/
do/something
- (n) doctors/for/got/to/his/months/services/Gandhiji/a/volunteer/six

Q.2. The following passages has not been edited. There is one error in each line.

Write the incorrect word and correction against each line.

	Incorrect	Correct
(a) It is not uncommon to see road.	_____	_____
(b) Across the globe named along Indian icons.	_____	_____
(c) The Sunil Gavaskar Cricket Field for Kentucky.	_____	_____
(d) Is expected to attract local American to The game, especially the Indian Diaspora.	_____	_____
(e) London boasts the world's older underground.	_____	_____
(f) Train network. It opened on 1863.	_____	_____
(g) As pleasant weather starts to kick backs in	_____	_____
(h) Coast and jackets invariably take centre stages.	_____	_____
(i) They is versatile layering items.	_____	_____



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Assignment-III (Session 2020-21)

Class: X Subject: Science Topic: Chemical Reactions and equations

Q) Solve the following chemical reactions :

1) Define combination reaction. Give one example of a combination reaction which is also exothermic.

2) Hydrogen (g) + Chlorine(g) \rightarrow 2 HCl

3) When magnesium ribbon burns in air or oxygen, a product is formed. State the type of chemical reaction and name the product formed in the reaction. Write balanced chemical equation of this reaction.

4) A solution of substance 'X' is used for white washing. What is the substance 'X'? State the Chemical reaction of X' with water.

5) Why does the colour of copper sulphate solution changes when an iron nail is dipped in it?

6) A zinc plate was put into a solution of copper sulphate kept on a glass container. It was found that blue colour of the solution gets fader and fader with the passage of time. After a few days zinc plate was taken out of the solution, a number of holes were observed on it. State the reason for changes observed on the zinc plate and write the chemical equation for the reaction involved.

7) What is observed when a solution of potassium iodide solution is added to a solution of lead nitrate? Name the type of reaction. Write a balanced chemical equation to represent the above chemical reaction.

8) Why 'Cu' can displace 'Ag' from silver nitrate and silver can displace copper from copper sulphate solution.

9) Consider the following chemical reaction: X + Barium Chloride \rightarrow Y(white ppt) + Sodium chloride , identify 'X' and 'Y' and the type of reaction.

10) 2g of silver chloride is taken in a china dish and the china dish is placed in sunlight for sometime. What will be your observation in this case? Write the chemical reaction involved in the form of a balanced chemical equation. Identify the type of chemical reaction.

11) 2g of lead nitrate powder is taken in a boiling tube. The boiling tube is heated over a flame. Now state the colour of the flame evolved and the residue left. Name the type of chemical reaction that has taken place stating its balanced chemical equation.

12) When you have mixed the solution of lead(II) nitrate and potassium iodide, then what was the colour of the precipitate formed and you name the ppt. write the balanced chemical equation for it.

13) A reddish brown coloured metal, used in electrical wires, when powdered and heated strongly in an open china dish, its colour turns black. When hydrogen gas is passed over this black substances it regains its original colour. Name the metal and the black coloured substances formed. Write chemicals reactions for both.

14) Give reason why digestion of food is an example of decomposition reaction.

15) Balance the chemical reactions : a) Burning of natural gas b) Burning of coal

c) The process of respiration d) The process of photosynthesis

e) phosphorus burns in presence of chlorine to form phosphorus pentachloride.