



Golden Days Universal School, Ozar

Assignment-IV 2020-2021

Class-X

Subject: English

Date:

Q1. The following passage is not edited. There is one error in each line. Write the incorrect word and the correction in the space provided as given below.

Then Ashoka has admitted something that no victorious _____
king or political leader in front of or after him _____
had ever confessed on. He said he felt remorse _____
on having killed tens of thousands of innocent people _____
for conquering Kalinga. This has not the old warrior _____
Ashoka talking – this was a changed man admit his mistakes _____
and his thoughts of the futility and tragedy of war. _____
Ashoka got his words carving in stone to make sure _____
that his message will not forget. _____

Q2. **Complete the following sentences using appropriate verb forms.**

On our last day at the farm, I1..... out into the desert after sunset. You can't step out during the day because the sun2..... too hot. I3..... I would be the only thing out of doors at that time. Abruptly, I4..... short. A rattlesnake5..... rigid before me. Its head6..... back to strike. Most snakes7..... at the sight of a man, but the one that I8..... in the desert on that evening9..... no such necessity. He10..... his ground in calm watchfulness11..... for me to show my intentions.

Q3. Write a letter to the municipal corporation for the garbage's spilled on the roads due to this many kinds of diseases have been affected in your area. You are sheeba/ sumit . address of your locality is 23/4 jamnagar delhi -6.

Q4. Write a diary entry on the earth day celebration you did in your house.



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Assignment-IV (Session 2020-21)

Class: X

Subject: Maths

(Q.1) The sum of a number and its reciprocal is $\frac{10}{3}$. Find the numbers.

(Q.2) Divide 12 into two parts such that the sum of their square is 74.

(Q.3) The sum of two numbers is 15. The sum of their reciprocal is $\frac{3}{10}$. Find the number.

(Q.4) The sum of the square of two consecutive odd numbers is 394. Find the numbers.

(Q.5) The sum of the square of two consecutive natural number is 421. Find the numbers.

(Q.6) A two digit number is 5 times the sum of its digits and is also equal to 5 more than twice the product of its digits. Find the number.

(Q.7) A two digit number is such that the product of its digit is 18. When 63 is subtracted from the number the digit interchange their places. Find the number.

(Q.8) The denominator of a fraction is one more than twice the numerator. If the sum of fraction and its reciprocal is $2\frac{16}{21}$. Find the fraction.

(Q.9) The age of a man is twice the square of the age of his son. Eight years hence, the age of man will be 4 years more than three times the age of his son. Find their present age.

(Q.10) 7 years ago Varun's age was five times the square of Swati's age. 3 years hence, Swati's age will be two fifth of Varun's age. Find their present ages.

(Q.11) A metro boat whose speed in still water is 5 km/hr, takes 1 hour more to go 12 km upstream than to return downstream to the same spot. Find the speed of stream.



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Assignment-IV (Session 2020-21)

Class: X

Subject: Sanskrit

Q.1 निम्नलिखित प्रश्नों के उत्तर लिखिये ।

- (1) पितर प्रति लिखितम् अधः पतं मञ्जुषाप्रदत्र शब्दैः पूरयित्वा पुनः लिखत ।
- (2) भवान् निखिलः । भवता स्वपित्ता सह 'स्वमि विवेकानन्दः' इति चलचित्रं दृष्टम् । तद्विषये स्वमित्तम् अखिल प्रति लिखित पत्रं मञ्जुषास्थपदैः पूरयित्वा उत्तरपुस्तिकायां लिखतु ।



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Assignment-IV (Session 2020-21)

Class: X

Subject: Science

Topic: Chemical Reactions and equations

Q.1) Write the balanced chemical equations for the following reactions and identify the type of reaction and identify the type of reaction in each case.

- 1) Nitrogen gas is treated with hydrogen gas in the presence of a catalyst at 773 K to form ammonia gas.
- 2) Sodium hydroxide solution is treated with acetic acid to form sodium acetate and water.
- 3) Ethanol is warmed with ethanoic acid to form ethyl acetate in presence of conc. H_2SO_4
- 4) Ethene is burnt in presence of oxygen to form carbon dioxide, water and releases heat and light.
- 5) Thermite reaction, iron(III) oxide reacts with aluminium and gives molten iron and aluminium oxide.
- 6) Magnesium ribbon is burnt in an atmosphere of nitrogen gas to form solid magnesium nitride.
- 7) Chlorine gas is passed in an aqueous potassium iodide solution to form potassium chloride solution and solid iodine.
- 8) Ethanol is burnt in air to form carbon dioxide, water and releases heat.

Q.2) Which among the following changes are exothermic and endothermic in nature:

- a) Decomposition of ferrous sulphate
- b) Dilution of sulphuric acid
- c) Dissolution of sodium hydroxide in water
- d) Dissolution of ammonium chloride in water

Q.3) Complete the missing components/variables given as x and y in the following reaction:

- a) $\text{Pb}(\text{NO}_3)_2 (\text{aq}) + 2\text{KI} (\text{aq}) \longrightarrow \text{PbI}_2 (\text{x}) + 2\text{KNO}_3 (\text{y})$
- b) $\text{Cu} (\text{s}) + 2\text{AgNO}_3 (\text{aq}) \longrightarrow \text{Cu}(\text{NO}_3)_2 (\text{aq}) + \text{x}$
- c) $\text{Zn} (\text{s}) + \text{H}_2\text{SO}_4 (\text{aq}) \longrightarrow \text{ZnSO}_4 (\text{x}) + \text{H}_2 (\text{y})$
- d) $\text{CaCO}_3 (\text{s}) \xrightarrow{\text{x}} \text{CaO} (\text{s}) + \text{CO} (\text{g})$

Q.4) Identify the reducing agent in the following reactions:

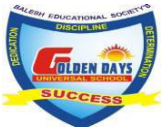
- a) $4\text{NH}_3 + 5\text{O}_2 \longrightarrow 4\text{NO} + 6\text{H}_2\text{O}$
- b) $\text{H}_2\text{O} + \text{F}_2 \longrightarrow \text{HF} + \text{HOF}$
- c) $\text{Fe}_2\text{O}_3 + 3\text{CO} \longrightarrow 2\text{Fe} + 3\text{CO}_2$
- d) $2\text{H}_2 + \text{O}_2 \longrightarrow 2\text{H}_2\text{O}$

Q.5) Identify the oxidizing agent (oxidants) in the following reactions:

- a) $\text{Pb}_3\text{O}_4 + 8\text{HCl} \longrightarrow 3\text{PbCl}_2 + \text{Cl}_2 + 4\text{H}_2\text{O}$
- b) $2\text{Mg} + \text{O}_2 \longrightarrow 2\text{MgO}$
- c) $\text{CuSO}_4 + \text{Zn} \longrightarrow \text{Cu} + \text{ZnSO}_4$
- d) $\text{V}_2\text{O}_5 + 5\text{Ca} \longrightarrow 2\text{V} + 5\text{CaO}$
- e) $3\text{Fe} + 4\text{H}_2\text{O} \longrightarrow \text{Fe}_3\text{O}_4 + 4\text{H}_2$
- f) $\text{CuO} + \text{H}_2 \longrightarrow \text{Cu} + \text{H}_2\text{O}$

Q.6) Balance and identify the types of chemical reactions:

- a) $\text{Mg} (\text{s}) + \text{Cl}_2 (\text{g}) \longrightarrow \text{MgCl}_2 (\text{s})$
- b) $\text{HgO} (\text{s}) \xrightarrow{\text{heat}} \text{Hg} (\text{l}) + \text{O}_2 (\text{g})$
- c) $\text{Na} (\text{s}) + \text{S} (\text{s}) \xrightarrow{\text{fuse}} \text{Na}_2\text{S} (\text{s})$
- d) $\text{TiCl}_4 (\text{l}) + \text{Mg} (\text{s}) \longrightarrow \text{Ti} (\text{s}) + \text{MgCl}_2 (\text{s})$
- e) $\text{CaO} (\text{s}) + \text{SiO}_2 (\text{s}) \longrightarrow \text{CaSiO}_3 (\text{s})$
- f) $\text{H}_2\text{O}_2 (\text{l}) \xrightarrow{\text{U.V.}} \text{H}_2\text{O} (\text{l}) + \text{O}_2 (\text{g})$



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Assignment-IV (Session 2020-21)

Class: X

Subject: SST

- Q.1. Why do we use averages? Are there any limitations to their use? Illustrate with your own examples related to development.
- Q.2. What is per capita income? Mention any two limitations of per capita income as an indicator of development.
- Q.3. Kerala, with lower per capita income, has a better human development ranking than Punjab. Hence, per capita income is not a useful criterion at all and should not be used to compare states. Do you agree?
- Q.4. On the basis of which three indicators of HDI 2004 Sri Lanka has a better rank than India?
- Q.5. 'Conflicting goals can also be development goals'. Elaborate with an example.
- Q.6. What are common developmental goals? Give any two suitable examples of common developmental goals.
- Q.7. "Money cannot buy all the goods and services that one needs to live well." Do you agree with this statement? Justify your answer with any three suitable arguments.
- Q.8. Apart from income, which other six things do people look for as important aspects of our lives?
- Q.9. On what basis are the rich and low income countries categorized in the world? What are the limitations of this approach? According to the World Development Report, 2006, India comes in which category? Give reasons for the same.
- Q.10. Why do people look at a mix of goals for development? Explain.
- Q.11. Why do different people have different notions of development? Which of the following explanations is more important and why?
- (a) Because people are different.
- (b) Because life situations of persons are different.
- Q. 12. What does HDI stand for? Explain the main criteria of measuring HDI according to the UNDP report of 1990.
- Q.13. Explain any five fields other than income where development is needed.