

DAV BR PUBLIC SCHOOL, BINA

Session (2024-25)

Class: X

Integrated Assignment No: 01



Date Posted	02-05 -24	Expiry Date	15-06-2024
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SCIENCE

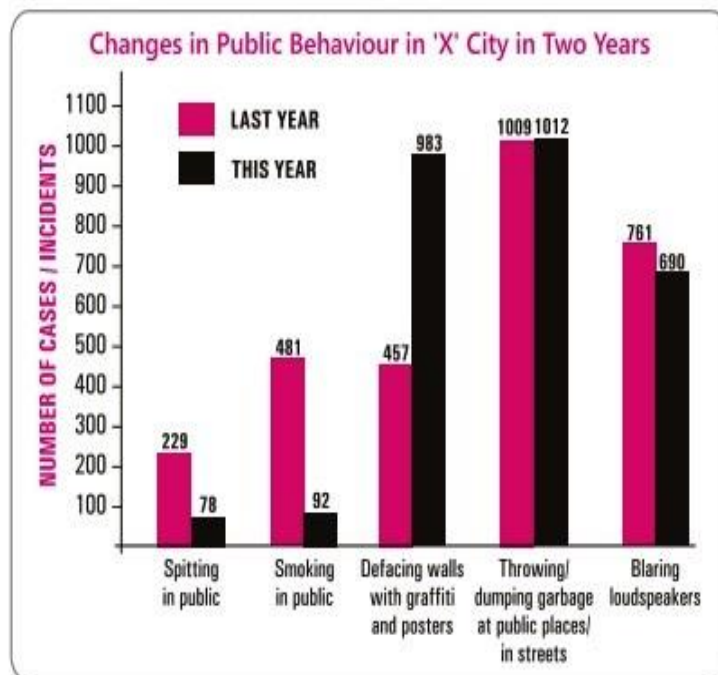
1.	A white salt on heating decomposes to give brown fumes and residue is left behind. (i) Name the salt. (ii) Write the equation.
2.	A student has been collecting silver coins and copper coins. One day she observed a black coating on silver coins and green coating on copper coins. Which chemical phenomenon is responsible for these coatings? Write the chemical name of black and green coatings
3.	Identify the substance which is oxidized and reduced in the following reactions. $H_2S + Br_2 \rightarrow 2 HBr + S$; $CuO + Zn \rightarrow ZnO + Cu$
4.	Solve the worksheet which is given below in a link worksheet
5.	Make a powerpoint presentation of any one physiological system that sustains life of any living organism , (note. PPT should be laced with a diagram, video and a poem) and present it in the class.
8.	Make an attractive and colorful mind map/ collage of any one organ system of your body.
9.	Make a 3 D Model of any one organ system of your choice given in your Ls no 5 of your textbook.

ENGLISH

S.NO **Question Statement - Write Analytical Paragraphs (in about 120 - 150 words) on the basis of the given inputs.**

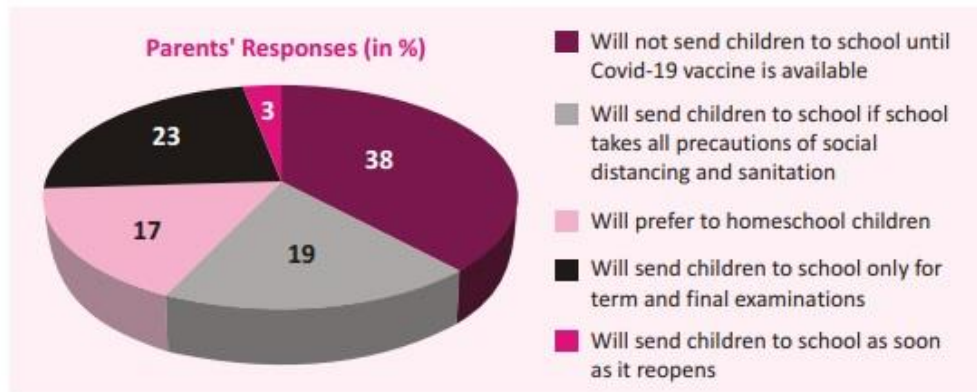
1. You are the General Manager of a restaurant. You have noticed that the cost of seafood items has gone up in recent times and this has overshoot the budgets of raw materials procurement. Your supplier explains that the supply chain of seafood items is adversely affected due to bad weather and a disruption in transport due to a strike, and consequently the prices of seafood items have gone up. Write an analytical paragraph briefly describing how the cost of procuring seafood items has overshoot the procurement budget of the restaurant and suggesting a solution to the problem in consultation with the restaurant chef and sales and marketing manager such that the seafood continues to be on the menu but the restaurant does not incur any losses or lose valuable customers to the competition. You might also like to introduce a new menu with attractive alternatives to seafood.

2. Given below is a bar graph showing some changes in the public behaviour in 'X' city in a period of two years. Analyse the data carefully and then summarise it in the form of an analytical paragraph.



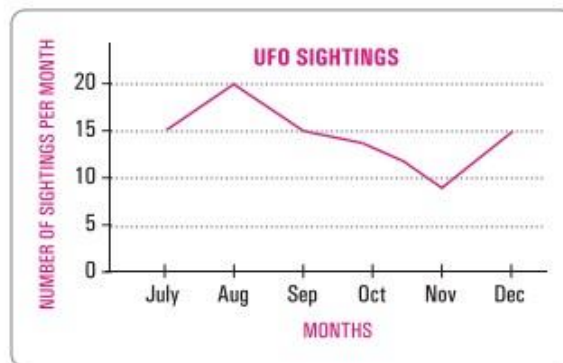
3.

1. The pie chart below shows some data on the reactions of parents to some questions in a survey conducted by a school to find out if parents are willing to send their children to school after Phase 5 of the unlocking of COVID-19 restrictions. Study the information carefully and then write a paragraph analysing the data. Make comparisons wherever appropriate and draw conclusions.



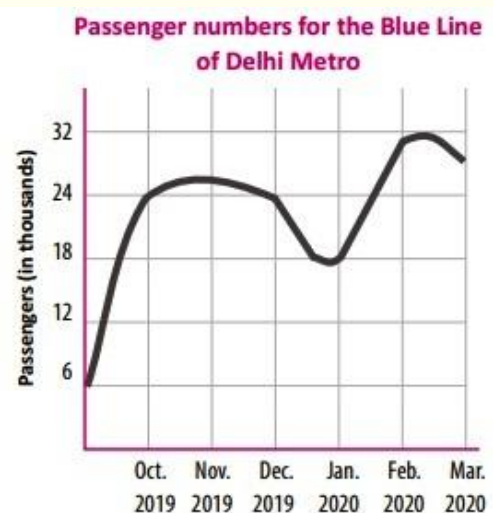
4.

The line graph below shows the number of incidents of UFO sightings in North India in six months – July to December last year. Study the statistics carefully and then summarise them in the form of an analytical paragraph.



5.

The following line graph shows the average number of passengers who travelled by the Blue Line of the Delhi Metro between October 2019 and March 2020. Study the information carefully and then write an analytical paragraph in about 150 words to summarise it. Make comparisons wherever appropriate and draw conclusions.



6.

The table below shows risk of death posed by five different causes in two income groups of people along with the world average of these deaths. Study the data carefully and then summarise it in the form of an analytical paragraph.

Deaths among Three Different Income Groups due to Different Risks/Causes

Risk	World	Low and middle income	High income
Percentage of deaths			
Indoor smoke from solid fuels	3.3	3.9	0.0
Unsafe drinking water, insanitation, lack of hygiene	3.2	3.8	0.1
Urban outdoor air pollution	2.0	1.9	2.5
Global climate change	0.2	0.3	0.0
Lead exposure	0.2	0.3	0.0

7.

The table below contains some information about climate change and air-pollution, their causes and effects on the environment. Study the information carefully and then write an analytical paragraph to summarise it in your own words.

	CLIMATE CHANGE	AIR POLLUTION
Gases	Green House Gases (GHG) – primarily CO ₂	Nitrogen Oxides (NO _x), Sulphur Dioxide (SO ₂), Volatile Organic Compounds (VOCs), Particulate Matter (PM)
Effects	Global	Local/Regional
Human Health Effects	Indirect through effect of Global Warming	Direct: breathing problems for healthy people, eye, nose, throat & lung irritation, asthma, chronic bronchitis, heart disease, death
Timescale of Effects	Long-term, in the future	Short-term, immediate
Env. Effects	Global warming, rising sea levels	Acid Rain, smog
Major Anthropological sources	Burning of fossil fuels from motor vehicles and industry (mostly energy sector)	Burning of fossil fuels, exhausts mostly from industry and motor vehicles

HINDI

S.NO

1.

प्र १ रचना के आधार पर वाक्यों के कितने भेद होते हैं प्रत्येक को एक एक उदाहरण देकर समझाइए?

2.

प्र २ सरल संयुक्त और मिश्र वाक्य कैसे पहचाने?

SANSKRIT

S.NO	सामासः
1.	समासस्य सज्ञा लिखन्तु -
2.	समासस्य कति भेदाः सन्ति ?
3.	तत्पुरुषस्य समासस्य दश उदाहरणानि लिखन्तु -
4.	द्वंद्व समासस्य दश उदाहरणानि लिखन्तु -
5.	अव्ययीभाव समासस्य दश उदाहरणानि लिखन्तु -
6.	निम्न शब्दानां विग्रहवाक्यं लिखन्तु - भाग्योदयः , ईश्वररचना , अनुरागम् , सर्वेश्वरः , प्रतिकार्यम् , यथारूचि , यथार्थम् , दयासमम् ,

SOCIAL STUDIES

S.NO	
1.	As per Human Development Report 2018 the following neighboring country of India has the highest per capita national income (a) Sri Lanka (b) Myanmar (c) Pakistan (d) Nepal
2.	The total income of the country divided by its total population is Called: (a) National income (b) Per capita income (c) Total income (d) None of these
3.	Which of the following statements defines Sustainable Development? i. Sustainable use of natural resources without considering the need of the future generation. ii. Present generation fulfils its needs while considering the needs of the future generation as well. iii. It means utilization of natural resources by the past, present and forthcoming future generation. iv. To meets the needs of the future generations even if the needs of the present generation go unmet

4.	<p>“We have not inherited the world from our forefathers - we have borrowed it from our children.” This proverb is more appealing to which of the following?</p> <p>(i) Continue to exploit resources (ii) Sustainable Development (iii) Quick Development (iv) Stop to use the resources</p>
5.	What is development? Mention two aspects of development.
6.	<p>Do the following two statements mean the same? Justify your answer.</p> <p>(a) People have different developmental goals. (b) People have conflicting developmental goals.</p>
7.	Give any common two developmental goals of the people.
8.	<p>What is HDI? Explain the components of Human Development Index (HDI).</p> <p>Or</p> <p>What is the Human Development Report? Which organization measures HDR? Explain the three major indicators of HDR.</p>
9.	On what basis the rich and low income countries have been categorized in the world? What are the limitations of this approach? According to the World Development Report, 2018, India comes in which category? Give reason for the same.
10.	Explain any five fields other than income where development is needed.
11.	<p>Write the importance of the Human Development Index in three points.</p> <p>Or</p> <p>‘Human Development is the essence of social development’. Explain.</p>

MATHS

S.NO	
1.	Given that $HCF(306, 657) = 9$, find $LCM(306, 657)$.
2.	Find three rational numbers lying between 0 and 0.1. Find twenty rational numbers between 0 and 0.1. Give a method to determine any number of rational numbers between 0 and 0.1.

3.	Prove that $\sqrt{3} - \sqrt{2}$ and $\sqrt{3} + \sqrt{5}$ are irrational.
4.	Write the smallest number which is divisible by both 360 and 657.
5.	α and β are zeroes of the quadratic polynomial $x^2 - 6x + y$. Find the value of 'y' if $3\alpha + 2\beta = 20$.
6.	If the zeroes of the polynomial $x^3 - 3x^2 + x + 1$ are $a - b$, a , $a + b$, then find the value of a and b .
7.	Find a quadratic polynomial each with the given numbers as the sum and product of its zeroes, respectively.
8.	Find a quadratic polynomial whose zeroes are reciprocals of the zeroes of the polynomial $f(x) = ax^2 + bx + c$, $a \neq 0$, $c \neq 0$.

ARTIFICIAL INTELLIGENCE

S.NO	
1.	Draw the diagram of communication skill and label it.
2.	Write any 5 methods of verbal communication.
3.	Define feedback and its types.
4.	Draw the diagram of 7'c of communication

5. Kartik is a class X student. Due to the pandemic, he is learning online. His teacher asks him to create a YouTube video in which he can make people aware of protecting themselves against the Coronavirus. He uses his own voice in the video and adds some photos and background music to enhance its effect. After sharing it with his friends, relatives and teachers, he receives their feedback. Which of the following feedback is considered descriptive?

(i) Well done, Bro!

(ii) Keep up the good work!

(iii) Fantastic video! You did an excellent job. You chose accurate images with extremely calming background music. Your explanation of the topic with perfect pronunciation was also quite effective.

(iv) Nice. Very informative video!

6. Which of the following is not an imperative sentence?

(i) Read a lot to improve your writing skills.

(ii) Don't shout.

(iii) Clean your room.

(iv) What kind of movies do you like?