ARMY PUBLIC SCHOOL GWALIOR CLASS - X


## ACADEMIC SESSION 2021-22 WORKSHEET (SELF -ASSESSMENT)

Subject: English<br>Allotment Date: 12 March 2022

Assignment No. : 12

| S. No. | QUESTIONS | MARKS | NATURE |
| :--- | :--- | :--- | :--- |
| $\mathbf{1}$ | Read the passage carefully given below. [ANY FIVE] <br> The choices we make on a daily basis-wearing a seat belt, lifting <br> heavy objects correctly or purposely staying out of any dangerous <br> situation-can either ensure our safety or bring about potentially <br> harmful circumstances. <br> You and I need to make a decision that we are going to get our lives <br> in order. Exercising self-control, self-discipline and establishing <br> boundaries and borders in our lives are some of the most important <br> things we can do. A life without discipline is one that's filled with <br> carelessness. <br> We can think it's kind of exciting to live life on the edge. We like <br> the image of "Yeah! That's me! Living on the edge! Woo-hoo!" It's <br> become a popular way to look at life. But if you see, even <br> highways have lines, which provide margins for our safety while <br> we're driving. If we go over one side, we'll go into the ditch. If we <br> cross over the line in the middle, we could get killed. And we like <br> those lines because they help to keep us safe. Sometimes we <br> don't even realize how lines help to keep us safe. <br> l'm not proud of this, but for the first 20 years of my life at work, I <br> ignored my limits. I felt horrible, physically, most of the time. I <br> used to tell myself "I know I have limits and that I've reached <br> them, but I'm going to ignore them and see if or how long I can <br> get by with it." I ran to doctors, trying to make myself feel better <br> through pills, vitamins, natural stuff and anything I could get my <br> hands on. Some of the doctors would tell me, "It's just stress." <br> That just made me mad. I thought stress meant you don't like <br> what you do or can't handle life, and I love what I do. But I kept <br> pushing myself, travelling, doing speaking engagements and so <br> on- simply exhausting myself. <br> Finally, I understood I was living an unsustainable life and <br> needed to make some changes in my outlook and lifestyle. <br> Based on your understanding of the passage, answer ANY FIVE <br> questions from the six givenbelow. | 5M | Understanding |


|  | a)Why has 'living on the edge' become popular? <br> b)What things are important for a disciplined life? <br> c)Explain the phrase 'potentially harmful circumstances'. <br> d)What is the message conveyed in the last paragraph of the <br> passage? <br> e)Find the word from the passage which means the same as <br> 'temporary'? <br> f)Find two colloquial words used in the passage. |  |
| :--- | :--- | :--- |
|  | Read the passage given below. <br> Read the following excerpt from a case study titled <br> "Demographic Change in Tribal Habitats". <br> It is a demographic change nobody would celebrate. About 55 per <br> cent of the country's tribal population now resides outside their <br> traditional habitats. It is known that migration of tribal population, <br> increasingly distress-driven, has been increasing. But the recently- <br> released Tribal Health in India report by the Union Ministry of Health <br> and Family Welfare has brought out some worrying aspects to this <br> known development. <br> More than half the country's 104 million tribal population now <br> resides outside India's 809 tribal majority blocks. To support this <br> fundamental change in tribal habitation, the report cites the Census <br> 2011 that found a 32 per cent decline in the number of villages with <br> 100 per cent tribal population between 2001 and 2011. <br> "There is a movement of tribal people from tribal to non-tribal areas, <br> possibly in search of livelihood and educational opportunities," says <br> the report. But it is insistent on a livelihood crisis that is triggering <br> this exodus. <br> India's tribal population is over-dependent on agriculture and forest- <br> related livelihood sources. While 43 per cent of non-tribals depend <br> on agriculture, 66 per cent of the tribal population survives on these <br> primary sector livelihood sources. But in recent decades, the <br> number of tribal farmers is coming down, and more are becoming <br> agricultural labourers. In the past decade, 3.5 million tribals have <br> quit farming and other related activities. Between 2001 and 2011 <br> census reports, the number of tribal cultivators reduced by 10 per <br> cent while number of agricultural labourers increased by 9 per cent. <br> This indicates a declining return from direct farming or people simply <br> don't have the resources to do farming. In the absence of no other <br> alternative, they are joining the informal labour force. "Displacement <br> and enforced migration has also led to an increasing number of <br> Scheduled Tribes working as contract labourers in the construction <br> industry and as domestic workers in major cities. Currently, one of <br> every two tribal households relies on manual labour for survival," <br> says the report. <br> Distribution of Scheduled Tribe population by States- 2011 |  |
| 2 |  |  |



|  |  |  |  |
| :---: | :---: | :---: | :---: |
| 4 | The following paragraph has not been edited. There is one error in each line. Identify the error and write its correction against the correct blank number. <br> Error Correction <br> Only those who work hard gets glory and success in life. E.g. $\qquad$ Nothing great could be achieved without effort. (a) $\qquad$ $\qquad$ A student can never comes out with flying colours unless he(b) $\qquad$ <br> $\overline{\text { Has really worked hard throughout a year © }}$ $\qquad$ | 3M | Critical Thinking |
| 5 | Read the conversation between Raghav and Ravi and complete the passage that follows. <br> Raghav: Ravi, Varun and I are going to watch the cricket match tomorrow. Would you like to join us? <br> Ravi: I would love to, but I have to take my father's permission first. Raghav: You must let me know by this evening because I have to arrange for the passes. <br> Ravi: I will do so as soon as I get permission. <br> Raghav informed Ravi that Varun and he were going to watch the cricket match the next day.He asked Ravi (a) $\qquad$ . Ravi replied that he would love to, but he had to take his father's permission first. Raghav told him (b) $\qquad$ because he had to arrange for the passes. Ravi said that he would do so as soon as he would get permission. | 2M | Interdisciplinary |
| 6 | SECTION C- LITERATURE [20M] <br> Answer the following questions in 40-50 words: [ANY SIX] <br> 1. What did the bakers wear in the Portuguese days, and when the author was young? <br> 2. Notice the use of the word 'turn' in the first line, "I think I could turn and live with animals...".What is the poet turning from? | 2x6=12 | Evaluation |


|  | 3. How old do you think Amanda is? How do you know this? <br> 4. Why did Custard cry for a nice safe cage? Why is the dragon called "cowardly dragon"? <br> 5. Which qualities are common in all three characters of the play 'The Proposal'? <br> 6. Do you think Richard's mother was too indulgent when she bought him cameras,telescopes,microscopes? Give two reasons to support your answer. <br> 7. Mention two things you would have done,other than what $M$ Loisel did, to help resolve the problem of the lost necklace. |  |  |
| :---: | :---: | :---: | :---: |
| 7 | Answer the following questions in 100-120 words: [ANY TWO] <br> 1. The author describes the things that Valli sees from an eight-year-old's point of view. Can you find evidence from the text for this statement? <br> 2. Lomov and Natalya have a complex relationship. Reflecting upon their character traits, develop a conversation between Natalya and Chubokov where they are discussing about Natalya's future husband. <br> 3. "Mother is the first teacher of a child". Evaluate the quote given above in the light of contribution of Richard Ebright's mother in 'making him a scientist' | 2x4=8 | HOT |

ARMY PUBLIC SCHOOL GWALIOR CLASS - X
ACADEMIC SESSION 2021-22
WORKSHEET (SELF -ASSESSMENT)
Subject: Hindi
Assignment No. : 12
Allotment Date: 12 March 2022

| S. NO. | QUESTIONS | MARKS | NATURE |
| :---: | :---: | :---: | :---: |
| 1 | (क )- कवि ने सबको एक होकर चलने की प्रेरणा क्यों दी है? मनुष्यता कविता के आधार पर स्पष्ट कीजिए। <br> (ख)- झरने किसके गौरव का गान कर रहे हैं? बहते हुए झरने की तुलना किससे की गई है? | $2$ <br> 2 | Information |
| 2 | ‘कर चले हम फ़िदा’ कविता की प्रासंगिकता स्पष्ट कीजिए। | 4 | Analytical |
| 3 | निम्नलिखित प्रश्नों के उत्तर दीजिए <br> (क )- स्काउट परेड करते समय लेखक अपने को महत्त्वपूर्ण ‘आदमी' फ़ौजी जवान क्यों समझने लगता था? <br> (ख) - दस अक्तूबर सन पैंतालीस का दिन टोपी के जीवन में क्या महत्त्व रखता है? | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ | Evaluation |



|  | (ख) आप $29 / 5$ संस्कार अपार्टमेंट, सेक्टर-14 रोहिणी, दिल्ली के निवासी हैं। आप चाहते हैं कि लोग दीपावली में पटाखों का कम से कम प्रयोग करें। पटाखों से होने वाली हानियों से अवगत कराते हुए नवभारत टाइम्स के संपादक को पत्र लिखिए। |  |  |
| :---: | :---: | :---: | :---: |
| 6 | निम्नलिखित प्रश्नों के उत्तर दीजिए। <br> (क) आपकी कॉलोनी में रियायती दर पर हेपेटाइटिस का लगवाने इंजेक्शन के बीपनीअ है। गया लिया द्वारा दिल्ली बाग पंजाबी क्लब लायंस सदर निर्णय कॉलोनी के सूचनापट्ट पर लिखने के लिए एक सूचना आलेख तैयार कीजिए। आप कॉलोनी विकास समिति के सचिव हैं। <br> (ख) आपके विद्यालय में परीक्षाएं शुरू होने वाली हैं। इससे विद्यालय के समय में परिवर्तन किया जा रहा है। विद्यालय की हेड गर्ल की सूचना एक से तरफ कीजिए तैयार आलेख | $2.5$ $2.5$ | Communic ation Skills |
| 7 | निम्नलिखित प्रश्नों के उत्तर दीजिए <br> (क) आपके मित्र फूलों से बनी वस्तुओं-गुलदस्ते, हार, मालाएँ, बुके आदि की बिक्री बढ़ाना चाहता है। उसकी मदद के लिए एक विज्ञान तैयार कीजिए। <br> (ख) 'पवन' पंखा बनाने वाली कंपनी अपने पंखों की बिक्री बढ़ाना चाहती है। आप उसके लिए एक आकर्षक विज्ञापन तैयार कीजिए। | $2.5$ $2.5$ | Interdiscipli nary |
| 8 | निम्नलिखित में से किसी एक विषय पर 120 शब्दों में लघुकथा लिखिए। लालच बुरी बला है <br> अथवा <br> ले डूबती है आपसकी शत्रुता | 5 | Critical Thinking and Problem Solving |

## ARMY PUBLIC SCHOOL GWALIOR <br> CLASS - X

ACADEMIC SESSION 2021-22
WORKSHEET (SELF -ASSESSMENT)
Subject: Mathematics
Assignment No. : 12
Allotment Date: 12 March 2022


| 6 | In the given figure, PA and PB are tangents to the circle with centre 0 . If $\angle A P B=60^{\circ}$, then calculate $\angle O A B$, <br> OR <br> A chord of a circle of radius 10 cm subtends a right angle at its centre. Calculate the length of the chord (in cm). | 2 | Analytical Thinking |
| :---: | :---: | :---: | :---: |
| 7 | Find the sum of the first 22 terms of an AP in which $d=7$ and $\mathbf{2 2}^{\text {nd }}$ term is 149 . | 3 | Evaluation |
| 8. | The angles of depression of the top and bottom of a 50 m high building from the top of a tower are $45^{\circ}$ and $60^{\circ}$ respectively. Find the height of the tower and the horizontal distance between the tower and the building, OR <br> A man standing on the deck of a ship, which is 10 m above water level, observes the angle of elevation of the top of a hill as $60^{\circ}$ and the angle of depression of the base of hill as $30^{\circ}$. Find the distance of the hill from the ship and the height of the hill. | 3 | CRITICL THINKING Evaluation |
| 9 | In figure, $X Y$ and $X^{\prime} Y^{\prime}$ are two parallel tangents to a circle , $X$ with centre $O$ and another tangent $A B$ with point of contact C intersecting XY at A and $X^{\prime} Y^{\prime}$ at $B$. Prove that $\angle A O B=90^{\circ}$. | 3 | Analytical thinking |
| 10 | If -5 is a root of the quadratic equation $2 x^{2}+p x-15=0$ and the quadratic equation $p\left(x^{2}+x\right)+k=0$ has equal roots, find the value of $k$. | 3 | Problem solving |
| 11 | Draw a line segment $A B$ of length 8 cm . Taking $A$ as centre, draw a circle of radius 4 cm and taking $B$ as centre, draw another circle of radius 3 cm . Construct tangents to each circle from the centre of the other circle. <br> OR <br> Construct a tangent to a circle of radius 4 cm from a | 4 | Evaluation |



|  |  |  |  |
| :--- | :--- | :--- | :--- |
| 14 | CASE STUDY QUESTION 2 |  |  |
| On a Sunday, your Parents took you to a fair. You could |  |  |  |
| see lot of toys displayed, and you wanted them to buy a |  |  |  |
| RUBIK's cube and strawberry ice-cream for you. Observe |  |  |  |
| the figures and answer the questions:- |  |  |  |$\quad$.

# ARMY PUBLIC SCHOOL GWALIOR CLASS - X <br> ACADEMIC SESSION 2021-22 WORKSHEET (SELF -ASSESSMENT) 

Assignment No. : 12
Subject: Science
Allotment Date: 12 March 2022

| S. NO. | QUESTIONS | MARKS | NATURE |
| :---: | :---: | :---: | :---: |
| 1 | Q1. Draw a schematic diagrams of an electric circuit comprising of 3 cells and an electric bulb, ammeter, plug-key in the ON mode and another with same components but with two bulbs in parallel and a voltmeter across the combination. Q2.Name the organs producing sperms and ova respectively in humans. <br> Q3.Choose an element from period 3 of modern periodic table that matches the description given below in each instance. Give reason for your choice. <br> (a) It has a similar structure to diamond. <br> (b) It has variable valency and is a member of oxygen family. | 2 2 2 | Information |
| 2 | Q4. A $9 \Omega$ resistance is cut into three equal parts and connected in parallel. Find the equivalent resistance of the combination. <br> Q5.In an experiment, Mendel obtained 1014 plants out of which 787 were having round seeds and 227 had wrinkled seeds in F2 generation. <br> a. What is the approximate ratio obtained in F2 generation? <br> Under which law of Mendel do you find this ratio? <br> b. Why is this law so called? <br> Q6.(a) How many isomers are possible for the compounds with molecular formula $\mathrm{C}_{4} \mathrm{H}_{8}$ ? Draw electron dot structure of branched chain isomer. <br> (b) How will you prove that $\mathrm{C}_{4} \mathrm{H}_{8}$ and $\mathrm{C}_{5} \mathrm{H}_{10}$ are homologous? | 2 2 2 | Understanding |
| 3 | Q7. Define a solenoid. Compare the magnetic field produced by a solenoid with that of a bar magnet? <br> Q8. What is electromagnetic induction? Explain how the movement of a magnet towards or away from a coil carrying a galvanometer produce current? Write the rule to find the direction of current in this above coil. |  | HOT |
| 4 | Q9. What is meant by electrical resistivity of a material? Derive its S.I. unit. Describe an experiment to study the factor on which the resistance of a conducting wire depends. Q10.List the changes in habit that people must adopt to dispose non-biodegradable waste, for saving, the environment, | 3 3 | Interdisciplinary |


| 5 | Q11.Shivan of pea plan Mention the off springs. What will b generation? Q12. Study C. <br> (i) From the which form (ii) Why did C in three (iii) Is New categories? Give reaso | cross a homoz <br> with white flowe <br> ype and genoty <br> springs of the <br> enotypic and g <br> Mendel's law of <br> of the following <br> Name of the <br> element <br> Li <br> Na <br> K <br> N <br> P <br> As <br> B <br> AI <br> Ga <br> hree categories einer's Triads. eev placed ele groups? <br> of octaves app <br> fy your answer | us purple flower variety ety of pea plant(pp). of the $F_{1}$ generation of eneration are self bred. ypic ratios of the $F_{2}$ inance. <br> ree categories A, B and <br> $B$ and C, pick the one <br> ts of category A, B and <br> le to all the three | 3 <br> 3 | Analytical Skill |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | Q13. Three and 9, resp (a) Arrange atomic radi. (b) State th modern pe (c) Write th combined | ts ' $X$ ', ' $Y$ ' and ' lements in the ion (group and ble. <br> a of the compo | ve atomic numbers 7,8 easing order of their od number) in the formed when ' X ' | 3 | Critical Thinking and Problem Solving |
| 7 | Q14. Micha introduces represent a experiment filings, each the iron filin respond to of force." T bar magne | day was an exp ept of the mag tic field visually bar magnet is sur magnet of its o nge themselves en presenceing sketch show accumulated | ental physicist. He line of force to cording to his unded by little bits of iron By tapping the surface, particular pattern. They Faraday called it "lines the lines of force due to a on little iron filings. | 4 | Evaluation |



## ARMY PUBLIC SCHOOL GWALIOR CLASS - X

## ACADEMIC SESSION 2021-22 WORKSHEET (SELF -ASSESSMENT)

Subject: Social Science
Assignment No. : 12
Allotment Date: 12 March 2022

| S. NO. | QUESTIONS | MARKS | NATURE |
| :--- | :--- | :--- | :--- |
| $\mathbf{1}$ | Write any two limitations of CDM. | $\mathbf{2}$ | Information |
| $\mathbf{2}$ | Why is iron and steel industry called the basic industry ? <br> Explain. | $\mathbf{2}$ | Understanding |
| $\mathbf{3}$ | Explain any two features each of formal sector loans and <br> informal sector loans . | $\mathbf{2}$ | Understanding |
| $\mathbf{4}$ | Write a short note on growth of regional political parties in <br> India. | $\mathbf{2}$ | Knowledge |
| $\mathbf{5}$ | Explain reasons for dense railway network in the North Indian <br> Plains? | $\mathbf{2}$ | Knowledge |



|  | provisions are made to extend the services to the common <br> people. <br> (i) What are the advantages of air travel ? (2) <br> (ii) Why air transport is not in the reach of common people <br> (1) <br> (iii) Name the regions which have been benefitted most by air <br> (1) <br> (ravel ? |  |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{1 1}$ | What is the main impact of Globalisation on Indian Economy? | $\mathbf{5}$ | Knowledge |
| $\mathbf{1 2}$ | How does democracy lead to peaceful and harmonious life <br> among citizens? Explain | $\mathbf{5}$ | Critical Thinking |
| $\mathbf{1 3}$ | 13.1 On the given outline Political Map of India, identify the <br> place marked as A with the help of following information and <br> write its correct name on the line marked near it. (A)The place <br> associated with massacre of Jallianwala. (1) <br> 13.2 On the same given map of India, locate the following: (1) <br> Singrauli Thermal Plant <br> OR <br> Hyderabad Software Technology Park <br> (II) Indira Gandhi International Airport (1) | $\mathbf{3}$ | Map Skill |

