



ARMY PUBLIC SCHOOL GWALIOR
CLASS -X
ACADEMIC SESSION 2021-22
WORKSHEET (SELF –ASSESSMENT)

Subject: English

Assignment No. : 3

Allotment Date: 15 June 2021

S. NO.	QUESTIONS	MARKS	NATURE
1	Write a paragraph on the topic “The Power Crisis and its Impact” with regard to the frequent power break down and load shedding operations in your city and many other cities in India.(words limit-150-200)	[6]	Information
2	You are Anshul/Anshika ,a student of X and a resident of 56 D, Ring Road , ITO, New Delhi , and wants to be a choreographer. Write a letter to the director, National Institute of Choreography, Noida, seeking information about their course, admission procedure, eligibility criteria and other necessary details.	[6]	Communication Skill
3	How was the young seagull able to take his first flight? Or Describe the narrator’s experience as he flew the aeroplane into the storm?	[6]	HOT
4	Fill in the blank with the correct form of verbs: 1. Everyone (has/have) done his or her homework. 2. Each of the students (is/are) responsible for doing his or her work. 3. Either my father or my brothers (is/are) going to sell the car. 4. Neither my sisters nor my mother (is/are) going to sell the house.	[4]	Interdisciplinary
5	Make meaningful sentences- a)Without/time/any stop/on/flows b)things/this is why/changing/always/are c)change/in fact/law of nature/ the/ is d) must/ accept/ the/in time/change/one	[4]	Analytical Skill

6	<p>7. Read the extract and answer the following.</p> <p>He stalks in his vivid stripes The few steps of his cage On pads of velvet quiet, In his quiet rage.</p> <p>a) Name the poem and the poet b) Who is 'he' referred to here? c) How does he look? d) What do you mean by "quiet rage"?</p>	[4]	Understanding
7	<p>Answer the following questions in about 30 to 40 words only.</p> <p>a) Critically analyse the poem "How to Tell Wild Animals". b) Write a brief character sketch of Anil? c) Describe how Ausable outwitted Max.</p>	[6]	Evaluation
8	<p>Write an essay on the topic- COVID -19</p> <p>"An unprecedented global health and economic crisis"</p>	[4]	Critical Thinking and Problem Solving



ARMY PUBLIC SCHOOL GWALIOR
CLASS -X
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WORKSHEET (SELF –ASSESSMENT)

Subject: Hindi

Assignment No. : 3

Allotment Date: 15 June 2021

S. NO.	QUESTIONS	MARKS	
1-	<p>कक्षा में अनजाने में हो गये अभद्र व्यवहार के लिए कक्षा अध्यापक से माफ़ी मांगते हुए पत्र लिखिए ।</p>	5	Information
2	<p>प्रस्तुत गद्यांश को पढ़कर दिए गए प्रश्नों के उत्तर लिखिए ।</p> <p>जलवायु परिवर्तन आज एक ऐसी विश्वस्तरीय समस्या का रूप ले चुका है, जिसके समाधान के लिए आज संपूर्ण विश्व-समाज को संयुक्त रूप से अंतर्राष्ट्रीय स्तर पर सतत प्रयास करने की आवश्यकता है। दर असल सामान्य मौसमी अभिव्यक्तियों में किसी खास स्थान पर होने वाले विशिष्ट परिवर्तन को ही जलवायु परिवर्तन कहते हैं। तापमान में वृद्धि, हिमनदों का पिघलना तथा तथा समुद्र जल स्तर में लगातार वृद्धि ऐसे सूचक हैं, जिनसे जलवायु परिवर्तन की परिघटना का पता चलता है। पृथ्वी पर आने वाली सौर ऊर्जा की बड़ी मात्रा अवरक्त किरणों के रूप में पृथ्वी के वातावरण से बाहर चली जाती है। इस ऊर्जा की कुछ मात्रा ग्रीनहाउस गैसों में मीथेन, कार्बन डाई ऑक्साइड, नाइट्रस</p>	5	Understanding

	<p>आक्साइड इत्यादि शामिल हैं। वातावरण में ग्रीनहाउस गैसों का होना अच्छा है, किन्तु जब इनकी मात्रा बढ़ जाती है, तो तापमान में वृद्धि होने लगती है। इसे जो समस्या सामने आई है, इसे ग्लोबल वार्मिंग अर्थात् वैश्विक तापवृद्धि की संज्ञा दी गई है।</p> <p>प्रश्न-1 संपूर्ण विश्व-समाज को संयुक्त रूप से अंतर्राष्ट्रीय स्तर पर सतत प्रयास करने की आवश्यकता क्यों है?</p> <p>प्रश्न- 2 जलवायु परिवर्तन क्या है ?</p> <p>प्रश्न- 3 'परिघटना' में प्रयुक्त उपसर्ग कौन सा है?</p> <p>प्रश्न- 4 गद्यांश का उचित शीर्षक बताइए</p>		
3	'हरिहर काका' पाठ के माध्यम से लेखक ने संबंधों के किस पक्ष पर चोट की है ?	5	HOT
4	<p>रचना के आधार पर वाक्य रूपान्तरण कीजिए ?</p> <p>1- अभिनव बीमार था ,इसलिए परीक्षा न दे सका (सरल वाक्य में बदलिए)</p> <p>2 - रमेश ने दिल्ली जाकर लाल किला देखा। (संयुक्त वाक्य में बदलिए)</p> <p>3- सच्चा मित्र संकट की घड़ी में काम आता है। (मिश्र वाक्य में बदलिए)</p> <p>4 -मैं मंदिर भी जाऊँगा और भजन भी सुनूँगा। (वाक्य का प्रकार बताइए)</p> <p>5 -मैंने एक बहुत बीमार व्यक्ति को देखा। (संयुक्त वाक्य में बदलिए)</p>	5	Interdisciplinary
5	<p>किसी एन.जी.ओ. के द्वारा 'बेटी बचाओ बेटी पढ़ाओ' पर लगभग 30से 50 शब्दों में प्रभावशाली विज्ञापन तैयार कीजिए।</p>	5	Analytical Skill
6	<p>'आ बैल मुझे मार' विषय से क्या समझते हो ? इस पर अपने विचार 100 से 120 शब्दों में लिखिए।</p>	5	Critical Thinking and Problem Solving

7	मीरा बाई कृष्ण की चाकरी क्यो करना चाहती है पाठ के आधार पर लिखिए ---	5	Evaluation
8	किसी एक विषय पर अनुच्छेद लिखिए 100 से 150 शब्दों में ----- 1. महँगाई के बढ़ते कदम 2 . विद्या सर्वोत्तम धन है ।	5	Communication Skills



ARMY PUBLIC SCHOOL GWALIOR

CLASS -X

ACADEMIC SESSION 2021-22

WORKSHEET (SELF –ASSESSMENT)

Subject: Mathematics

Assignment No. : 3

Allotment Date: 15 June 2021

CH.3 : PAIR OF LINEAR EQUATIONS

S. NO.	QUESTIONS	MARKS	NATURE
1	The pair of equations $x+2y+5=0$ and $-3x-6y+1=0$ have (a) a unique solution (b) exactly two solutions (c) infinitely many solution (d) no solution	1	Understanding
2	If $3x - 5y = 1$, $\frac{2x}{x-y} = 4$, then the value of $x + y$ is (a) $\frac{1}{3}$ (b) -3 (c) 3 (d) $-\frac{1}{3}$	1	Analytical Skill
3	The value of k for which the system of equation $kx-y=2$, $6x+2y=3$ has a unique solution is (a) $=3$ (b) $\neq 3$ (c) $\neq 0$ (d) $=0$	1	Understanding
4	The value of k for which $kx+3y=k-2$; $12x+ky=k$ have no solution is; (a) $k \neq 6$ (b) $k=4$ (c) $k=2$ (d) $k=1$	1	Interdisciplinary
5	If a pair of lines is consistent, then the lines will be: (a) parallel (b) always coincident (c) intersecting or coincident (d) always intersecting	1	Analytical Skill
6	The solution of the system of linear equations $\frac{x}{a} + \frac{y}{b} = a+b$; $\frac{x}{a^2} + \frac{y}{b^2} = 2$ are (a) $x = a$ and $y = b$ (b) $x = a^2$ and $y = b^2$ (c) $x = 1$ and $y = 1$ (d) none of these	1	Critical Thinking and Problem Solving

7	If the lines given by $3x+2ky=2$ and $2x+5y+1=0$ are parallel, then the value of k is (a) $-5/4$ (b) $2/5$ (c) $15/4$ (d) $3/2$	1	Application
8.	The sum of two natural numbers is 240 and their ratio is 3:5. Then the greater number is (a) 180 (b) 160 (c) 150 (d) 90	1	Analytical Thinking
9	The area of the triangle formed by the lines $x=3$, $y=4$ and $x=y$ is (a) $\frac{1}{2}$ sq. unit (b) 1 sq. unit (c) 2 sq. units (d) None of these	1	Understanding
10	If $3x-2y=4$, $2x+y=5$ then the value of m such that $y=2x+m$ is (a) $m=-3$ (b) $m=3$ (c) $m=-1/3$ (d) $m=1/3$	1	Interdisciplinary
11	The line $3x-4y=12$ meets the x-axis at; (a) (3,0) (b) (0,3) (c) (4,0) (d) (0,4)	1	Interdisciplinary
12.	Rs. 4900 were divided among 150 children. If each girl gets Rs. 50 and a boy gets Rs. 25, then the number of boys is: (a) 100 (b) 102 (c) 104 (d) 105	1	Interdisciplinary
13	.solve; $\frac{1}{2}x + \frac{1}{3}y = 2$ $\frac{1}{3}x + \frac{1}{2}y = \frac{13}{6}$	2	Evaluation
14	Find whether the following pair of equation is consistent or in consistent $3x-2y=5$ and $2x+3y=9$.	2	Analytical Thinking
15.	If $x=1$ then find the value of y in the equation $\frac{4}{x} + \frac{3}{y} = 5$	2	Evaluation
16.	Solve the following equations; $y-2x=10$ and $4y+x=8$ by elimination method.	2	Evaluation
17.	Find the value of "a" so that point (3,a) lies on the line represented by $2x-3y=5$.	2	Analytical thinking
18.	The sum of the digits of a two digit number is 9. If 27 is added to it, the digits of the number get reversed. Find the number.	2	Problem solving
19.	The angles of triangle are x,y and 40° . The difference between the two angles x and y is 30° . Find x and y.	2	Interdisciplinary
20.	Solve by substitution method; $3x-4y-4=0$ and $9x=2y+7$.	2	Evaluation
21.	A fraction becomes $\frac{1}{3}$ when 1 is subtracted from the numerator and it becomes $\frac{1}{4}$ when 8 is added to its denominator. Find the fraction.	3	Critical thinking

22.	The cost of 2kg of apples and 1kg of grapes on a day was found to be Rs 160. After a month ,the cost of 4kg of apples and 2kg of grapes is Rs 300. Represent the situation algebraically and geometrically.	3	HOTS
23.	Draw the graphs of the equations $x-y+1=0$ and $3x+2y-12=0$,determine the coordinates of the vertices ofthe triangle formed by the lines and the x-axis ,and shad the triangular region..	3	HOTS
24.	Given the linear equation $2x+3y-8=0$, write another linear equation in two variables such that the geometricalrepresentation of the pair so formed is; (a) Intersecting lines (b) parallel lines (c) coincidentlinest.	3	HOTS



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CLASS -X

ACADEMIC SESSION 2021-22

WORKSHEET (SELF –ASSESSMENT)

Subject: Science

Assignment No. : 3

Allotment Date: 15 June 2021

S. NO.	QUESTIONS	MARKS	NATURE
1	Q1. Which type of medicine is used for treating indigestion? Q2. Mention the purpose of blackening the interior of a solar cooker. Q3. Which two colours of the spectrum are best for photosynthesis?	1 1 1	Information
2	Q4. List the events which occur during photosynthesis. Q5. Differentiate between extracellular digestion and intracellular digestion. Q6. List any three differences between an acid and a base.	3 3 3	Understanding
3	Q7. Bio gas is an excellent fuel. Justify the statement by giving two reasons. Mention the main constituents of bio gas along with its percentage. Q8. Which gas is usually liberated when an acid reacts with a metal ? Illustrate with an example. How will you test for the presence of this gas?	3 3	HOT
4	Q9. In human alimentary canal, name the site of complete digestion of various components of food. Explain the process of digestion. Q10. Draw a diagram to show open stomatal	3	Interdisciplinary

	<p>pore and label it:</p> <p>a. Guard cells</p> <p>b. Chloroplast</p> <p>Write one function of each.</p>	3	
5	<p>Q11. A metal carbonate X on heating with an acid gives a gas which when passed through a solution Y gives the carbonate back. On the other hand, a gas G that is obtained at anode during electrolysis of brine is passed on dry Y, it gives a compound Z, used for disinfecting drinking water. Identify X, Y, G and Z.</p>	5	Analytical Skill
6	<p>Q12. List any three hazards of nuclear waste. How does the disposal of nuclear waste pose a problem for the plant and animal life?</p>	5	Critical Thinking and Problem Solving
7	<p>Q13. Explain the process of nutrition in Amoeba.</p> <p>Q14. (a) How does construction of dams across the river get linked with production of greenhouse gases?</p> <p>(b) How do technological inputs improve the efficiency of biomass fuels?</p>	3 3	Evaluation



ARMY PUBLIC SCHOOL GWALIOR

CLASS -X

ACADEMIC SESSION 2021-22

WORKSHEET (SELF –ASSESSMENT)

Subject: Social Science

Assignment No. : 3

Allotment Date: 15 June 2021

S. NO.	QUESTIONS	MARKS	NATURE
1	What are Residuary subjects? Give examples.	1	Information
2	Which one of the following is not a feature of federalism? (a) There are two or more levels of government. (b) Different tiers of government govern the same citizens. (c) Sources of revenue for each level of government are clearly specified. (d) The Fundamental provisions of the Constitution can be changed unilaterally by one level of government.	1	Understanding
3	What was the main objective of the Constitutional Amendment made in 1992 in India?	1	Understanding
4	Examine the following pairs that give the level of government in India and the powers of the government at that level to make laws on the subjects mentioned against each. Which of the following pair is not correctly matched?	1	Interdisciplinary

	Column I	Column II		
	a) State government	i) State List		
	b) Central government	ii) Union List		
	c) Central and state government	iii) Concurrent List		
	d) Local government	iv) Residuary powers		
5	<p>In the question given below, there are two statements marked as assertion (A) and reason (R) . Read the statements and choose the correct option .</p> <p>Assertion (A) India is a Federal country. Reason (R) In India power is divided between a central authority and various constituent units.</p> <p>(a) Both (A) and (R) are true and (R) is the correct explanation of (A). (b) Both (A) and (R) are true and (R) is not the correct explanation of (A). (c) (A) is true, but (R) is false. (A) is false , but (R) is true.</p>		1	Critical Thinking and Problem Solving
6	<p>Which organisation publishes the Human Development Report?</p> <p>a) UNO b) WHO c) UNDP d) World Bank</p>		1	Understanding
7	Define Literacy rate		1	Understanding
8	Mention any two development goals of a landless rural		1	Understanding

	labourer.		
9	Life expectancy at birth means : (a) Average expected length of life of a person at the time of birth. (b) Average expected length of a life of a person at the time of death. (c) All of the above (d) None of the above	1	Information
10	In the question given below, there are two statements marked as assertion (A) and reason (R) . Read the statements and choose the correct option . Assertion (A) For comparing countries total income is not a useful measure . Reason (R) Different countries have different population. (d) Both (A) and (R) are true and (R) is the correct explanation of (A). (e) Both (A) and (R) are true and (R) is not the correct explanation of (A). (f) (A) is true, but (R) is false. (g) (A) is false , but (R) is true.	1	Critical Thinking and Problem Solving
11	What is the basic idea behind decentralisation ?	3	Information
12	Discuss two kinds of routes through which federations have been formed.	3	Analytical Skill
13	What consequences would we face if non- renewable resources get exhausted in the world?	3	Evaluation
14	“ Money cannot buy all the goods and services that one needs to live well”.	3	Communication Skills
15	How is federalism practiced in India?	5	Information
16	“ India is a federal country.” Explain by giving examples.	5	HOTS
17	What does Sustainability of Development mean? How can sustainable development be achieved ?	5	Evaluation
18	On an outline map of World locate and label Any three Federal countries of the world.	3	Information



ARMY PUBLIC SCHOOL GWALIOR

CLASS -X

ACADEMIC SESSION 2021-22

WORKSHEET (SELF –ASSESSMENT)

Subject: Computer

Assignment No. : 3

Allotment Date: 15 June 2021

S.NO.	QUESTIONS	MARKS	NATURE
1	<p>Choose and write the correct option (MCQ):-</p> <p>(i) The mobile phones using this technology are able to be unlocked and mover between carriers:-</p> <ul style="list-style-type: none">(a) CDMA(b) GSM(c) WLL(d) None of these. <p>(ii) Which one is the fastest available mobile internet technology:-</p> <ul style="list-style-type: none">(a) 2G(b) 3G(c) 4G(d) 8G <p>(iii) What plugs in the network card located in every computer connected in LAN?</p> <ul style="list-style-type: none">(a) Ethernet cables(b) Switch	4 X ½ = 2	Information

	<p>(c) Hub</p> <p>(d) Port</p> <p>(iv) In which type of network a moving user can connect to a Local Area Network (LAN) through a wireless radio connection?</p> <p>(a) WAN</p> <p>(b) LAN</p> <p>(c) WLAN</p> <p>(d) MAN</p>		
2	<p>Fill in the blanks :-</p> <p>(i) _____ does not assign specific frequency to each user on the communication network.</p> <p>(ii) 2G, 3G and 4G are _____ internet access technology.</p> <p>(iii) The _____ waves are used to form wireless LANs.</p> <p>(iv) A wireless network interface card bears an _____.</p>	4 X ½ = 2	Understanding
3	<p>Short Definition :</p> <p>(i) GSM</p> <p>(ii) CDMA</p> <p>(iii) NIC</p> <p>(iv) Access Point</p>	4 x ½ =02	Critical Thinking
4	<p>Answer the following questions:-</p> <p>(i) Write two features of GSM Technology.</p> <p>(ii) Write two features of WLL technology.</p> <p>(iii) Write any two differences between Peer to Peer networking and Client Server Networking.</p> <p>(iv) Write any two advantages of Wireless LAN.</p>	4x1=4	HOT