



ARMY PUBLIC SCHOOL GWALIOR

CLASS - X



ACADEMIC SESSION 2022-23

WORKSHEET (SELF –ASSESSMENT)

Subject: English

Assignment No: 03

Allotment Date: 20 July 2022

S.NO	QUESTIONS	MARKS	NATURE
01	How did the young seagull's family celebrate his first flight?	6	Information
02	<p><u>Read the given extract and answer the questions that follow:</u></p> <p>There was no answer. The radio was dead too. I had no radio, no compass, and I couldn't see where I was. I was lost in the storm. Then, in the black clouds quite near me, I saw another aeroplane. It had no lights on its wings, but I could see it flying next to me through the storm. I could see the pilot's face – turned towards me. I was very glad to see another person. He lifted one hand and waved.</p> <p>2.1 What happened to the May Day calls made by the pilot? 2.2 Who was flying the another plane? 2.3 What does the word 'glad' mean? 2.4 How did the another pilot greet him?</p>	4	Understanding
03	How did Hari Singh know that Anil had forgiven him?	5	HOTS
04	How and why did Max come inside Ausable's room?	5	HOTS
05	<p><u>Read the following extract and answer the questions that follow:</u></p> <p>He should be snarling around houses At the jungle's edge, Baring his white fangs, his claws, Terrorising the village!</p> <p>5.1 What does the poet try to suggest through</p>	5	Analytical Skills

	<p>these lines?</p> <p>5.2 How does the tiger scare the people?</p> <p>5.3 Why does 'he' snarl?</p> <p>5.4 How does 'he' show his presence?</p> <p>5.5 Who wrote these lines?</p>		
06	<p>You are Naresh/Nandini of Safdarjung, New Delhi. You are deeply saddened by the attack on elderly people who live alone. Write a letter to the editor of 'The New India Times' making people aware of the authorities to guarantee that such attacks do not occur.</p>	5	Critical Thinking and Problem Solving
07	<p>GRAMMAR</p> <p>Choose the correct modal verbs to complete the following sentences: (need to, needn't, may, might, must, can't, can, shouldn't could, used to, mustn't)</p> <p>7.1 Take an umbrella. Itrain later.</p> <p>7.2 Drivers.....stop when the traffic lights are red.</p> <p>7.3you speak Italian? No I</p> <p>7.4 You..... leave small objects lying around such objects.....be swallowed by children.</p> <p>7.5 There are plenty of tomatoes in the fridge. Youbuy any.</p> <p>7.6 You.....touch a live electric wire.</p> <p>7.7you pass the salt, please?</p> <p>7.8 Wegossip a lot when we were in the hostel.</p>	10	Evaluation



ARMY PUBLIC SCHOOL GWALIOR

CLASS - X



ACADEMIC SESSION 2022-23

WORKSHEET (SELF -ASSESSMENT)

Subject: Hindi

Assignment No: 03

Allotment Date: 20 July 2022

1	<p>निम्नलिखित अपठित गद्यांश को ध्यान से पढ़ें और प्रश्नों का उत्तर दें :</p> <p>भारत में हरित क्रांति का मुख्य उद्देश्य देश को खाद्यान्न मामले में आत्मनिर्भर बनाना था, लेकिन इस बात की आशंका किसी को नहीं थी कि रासायनिक उर्वरकों और कीटनाशकों का अंधाधुंध इस्तेमाल न सिर्फ खेतों में, बल्कि खेतों से बाहर मंडियों तक में होने लगेगा। विशेषज्ञों के मुताबिक रासायनिक उर्वरकों और कीटनाशकों का प्रयोग खाद्यान्न की गुणवत्ता के लिए सही नहीं है, लेकिन जिस रफ्तार से देश की आबादी बढ़ रही है, उसके मद्देनजर फसलों की अधिक पैदावार जरूरी थी। समस्या सिर्फ रासायनिक खादों के प्रयोग की ही नहीं है। देश के ज्यादातर किसान परंपरागत कृषि से दूर होते जा रहे हैं।</p> <p>दो दशक पहले तक हर किसान के यहाँ गाय, बैल और भैंस खूटों से बँधे मिलते थे। अब इन मवेशियों की जगह ट्रैक्टर-ट्राली ने ले ली है। परिणामस्वरूप गोबर और घूरे की राख से बनी कंपोस्ट खाद खेतों में गिरनी बंद हो गई। पहले चैत-बैसाख में गेहूँ की फसल कटने के बाद किसान अपने खेतों में गोबर, राख और पत्तों से बनी जैविक खाद डालते थे। इससे न सिर्फ खेतों की उर्वरा-शक्ति बरकरार रहती थी, बल्कि इससे किसानों को आर्थिक लाभ के अलावा बेहतर गुणवत्ता वाली फसल मिलती थी।</p> <p>(क) हमारे देश में हरित क्रांति का उद्देश्य क्या था?</p> <p>(ख) खाद्यान्नों की गुणवत्ता बनाए रखने के लिए किनका प्रयोग सही नहीं था?</p> <p>(ग) विशेषज्ञ हरित क्रांति की सफलता के लिए क्या आवश्यक मानने लगे</p>	5	Understand ing
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और क्यों?

- (घ) हरित क्रांति ने किसानों को परंपरागत कृषि से किस तरह दूर कर दिया?
(ङ) हरित क्रांति का मिट्टी की उर्वरा शक्ति पर क्या असर हुआ?

5

निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर दिए गए प्रश्नों के उत्तर दीजिए
चंपारण सत्याग्रह के बीच जो लोग गांधी जी के संपर्क में आए वे आगे चलकर देश के निर्माताओं में गिने गए। चंपारण में गांधी जी न सिर्फ सत्य और अहिंसा का सार्वजनिक हितों में प्रयोग कर रहे थे बल्कि हलुवा बनाने से लेकर सिल पर मसाला पीसने और चक्की चलाकर गेहूँ का आटा बनाने की कला भी उन बड़े वकीलों को सिखा रहे थे, जिन्हें गरीबों की अगुवाई की जिम्मेदारी सौंपी जानी थी। अपने इन आध्यात्मिक प्रयोगों के माध्यम से वे देश की गरीब जनता की सेवा करने और उनकी तकदीर बदलने के साथ देश को आजाद कराने के लिए समर्पित व्यक्तियों की एक ऐसी जमात तैयार करना चाह रहे थे जो सत्याग्रह की भट्टी में उसी तरह तपकर निखरे, जिस तरह भट्टी में सोना तपकर निखरता और कीमती बनता है।

गांधी जी की मान्यता थी कि एक प्रतिष्ठित वकील और हज़ामत बनाने वाले हज़ामत में पेशे के लिहाज़ से कोई फ़र्क नहीं, दोनों की हैसियत एक ही हैं। उन्होंने पसीने की कमाई को सबसे अच्छी कमाई माना और शारीरिक श्रम को अहमियत देते हुए उसे उचित प्रतिष्ठा व सम्मान दिया था। कोई काम बड़ा नहीं, कोई काम छोटा नहीं, इस मान्यता को उन्होंने प्राथमिकता दी ताकि साधन शुद्धता की बुनियाद पर एक ठीक समाज खड़ा हो सके। आज़ाद हिंदुस्तान आत्मनिर्भर, स्वावलंबी और आत्म-सम्मानित देश के रूप में विश्व-बिरादरी के बीच अपनी एक खास पहचान बनाए और फिर उसे बरकरार भी रखे।

(क) किसी काम या पेशे के बारे में गांधी जी की मान्यता क्या थी?

(ख) गांधी जी सबसे अच्छी कमाई किसे मानते थे?

(ग) चंपारण सत्याग्रह के दौरान गांधी जी आध्यात्मिक प्रयोग क्यों कर रहे थे?

(घ) गांधी जी लोगों को शारीरिक श्रम का महत्त्व किस तरह समझा रहे थे?

(ङ) शारीरिक श्रम को महत्त्व देने और हर काम को समान समझने के पीछे

2	<p>गांधी जी की दूरदर्शिता क्या थी?</p> <p>दिए गए संकेत बिंदुओं की सहायता से विषय ' व्यायाम और खेल ' पर 150 शब्दों में अनुच्छेद लिखिए </p> <ul style="list-style-type: none"> • स्वास्थ्य का जीवन में महत्व • खेल : मनोरंजन का साधन <p>व्यायाम और खेल के लिए आवश्यक नियम</p>	6	
3	<p>बिजली के खराब मीटर की शिकायत करते हुए बिजली विभाग के अधिशासी अभियंता को शिकायती पत्र लिखिए </p>	5	
4	<p>निम्नलिखित पंक्तियों का काव्य-सौंदर्य स्पष्ट कीजिए-</p> <p>1. हरि आप हरो जन री भीर । द्रोपदी री लाज राखी, आप बढ़ायो चीर । भगत कारण रूप नरहरि, धर्यो आप सरीर ।</p> <p>2. बूढ़तो गजराज राख्यो, काटी कुण्जर पीर । दासी मीराँ लाल गिरधर, हरो म्हारी भीर</p>	6	
5	<p>नीचे दिए गए प्रश्नों के सही विकल्प छाँटिए </p> <p>1. आमरण में कौन सा समास है।</p> <p>A) अव्ययीभाव समास</p> <p>B) तत्पुरुष समास</p> <p>C) कर्मधारय समास</p> <p>D) द्विगु समास</p>	5	

2. नीलगगन – शब्द में समास बताइए

- A) तत्पुरुष समास
- B) द्विगु समास
- C) कर्मधारय समास
- D) बहुव्रीहि समास

3. पंचतंत्र – शब्द में समास पहचानिए

- A) द्वंद्व समास
- B) अव्ययीभाव समास
- C) कर्मधारय समास
- D) द्विगु समास

4. नर-नारी – शब्द में समास बताइए

- A) द्वंद्व समास
- B) द्विगु समास
- C) बहुव्रीहि समास
- D) तत्पुरुष समास

5. महादेव – शब्द में समास छाँटिए

- A) द्विगु समास

<p>6</p>	<p>B) बहुव्रीहि समास</p> <p>C) तत्पुरुष समास</p> <p>D) द्वंद्व समास</p> <p>निम्नलिखित प्रश्नों के उत्तर 60 - 70 शब्दों में लिखिए।</p> <p>1. प्राचीन काल में मनोरंजन और शक्ति-प्रदर्शन के लिए किस प्रकार के आयोजन किए जाते थे?</p> <p>2 'ततार्रा-वामीरो कथा' पाठ के आधार पर ततार्रा का चरित्र-चित्रण कीजिए।</p> <p style="text-align: center;">_____X_____</p>	<p>4x2=8</p>	
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ARMY PUBLIC SCHOOL GWALIOR

CLASS - X



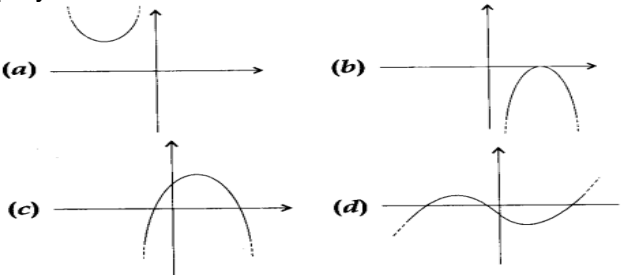
ACADEMIC SESSION 2022-23

WORKSHEET (SELF -ASSESSMENT)


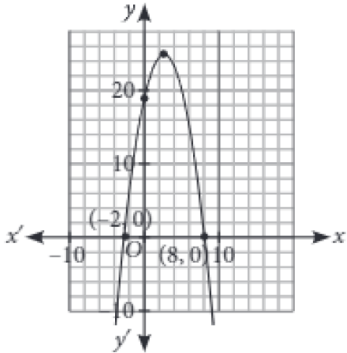
Subject: Mathematics

Assignment No: 03

Allotment Date: 20 July 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	If HCF (a, b) = 12 and $a \times b = 1800$ then LCM (a, b) is (a) 3600 (b) 900 (c) 150 (d) 90	1	understanding
2	If HCF of 55 and 99 is expressible in the form $55m - 99$, then the value of m: (a) 4 (b) 2 (c) 1 (d) 3	1	application
3	Given that LCM of (91, 26) = 182 then HCF (91, 26) is (a) 13 (b) 26 (c) 7 (d) 9	1	understanding
4	If the zeroes of the quadratic polynomial $x^2 + (a + 1)x + b$ are 2 and -3, then (a) $a = -7, b = -1$ (b) $a = 5, b = -1$ (c) $a = 2, b = -6$ (d) $a = 0, b = -6$	1	Interdisciplinary
5	Which of the following is not the graph of quadratic polynomial? 	1	Analytical Skill
6	A quadratic polynomial, whose zeroes are -4 and -5, is (a) $x^2 - 9x + 20$ (b) $x^2 + 9x + 20$ (c) $x^2 - 9x - 20$ (d) $x^2 + 9x - 20$	1	Critical Thinking and Problem Solving
7	The zeroes of the quadratic polynomial $x^2 + 1750x + 175000$ are (a) both negative (b) one positive and one negative (c) both positive (d) both equal	1	application

8.	The value of k, for which the system of equations $x + (k + l)y = 5$ and $(k + l)x + 9y = 8k - 1$ has infinitely many solutions is (a) 2 (b) 3 (c) 4 (d) 5	1	Analytical Thinking
9	The pair of equations $x = 0$ and $x = 5$ has (a) no solution (b) unique/one solution (c) two solutions (d) infinitely many solutions	1	Understanding
10	If $a/m \neq b/l$ then the system of equations $ax + by = c$, $lx + my = n$, has (a) a unique solution (b) no solution (c) infinitely many solutions (d) none of these	1	Interdisciplinary
11	For what value of k, the pair of equations $4x - 3y = 9$, $2x + ky = 11$ has no solution?	1	Interdisciplinary
12.	Two equations in two variables taken together are called (a) linear equations (b) quadratic equations (c) simultaneous equations (d) none of these	1	Application
13	Express each number as a product of its prime factors: (i) 5005 (ii) 156	2	Evaluation
14	Given that HCF (306, 657) = 9, find LCM (306, 657).	2	Analytical Thinking
15.	What is the HCF of the smallest prime number and the smallest composite number?	2	Evaluation
16.	If the sum and product of the zeros of a quadratic polynomial are 2 and -15 respectively. Then find the quadratic polynomial .	2	Evaluation
17.	Find the value of 'k' such that the quadratic polynomial $x^2 - (k+6)x + 2(2k+1)$ has sum of the zeros is half of their product.	2	Analytical thinking
18.	Divide $(x^4 - 5x + 6)$ by $(2 - x^2)$.	2	Problem solving
19.	A fraction becomes 9/11 if 2 is added to both the numerator and the denominator. If, 3 is added to both the numerator and the denominator it becomes 5/6. Find the fraction.	2	Evaluation
20.	Solve the equations $x + 2y - 4 = 0$ and $2x + 4y - 12 = 0$ graphically.	2	Interdisciplinary
21.	Prove that $\sqrt{5}$ is irrational and hence prove that $3 + 2\sqrt{5}$ is also irrational.	3	Critical thinking

22.	Find HCF and LCM of 404 and 96 and verify that $HCF \times LCM = \text{Product of the two given numbers}$.	3	HOTS
23.	<p>Priya and her husband Aman who is an architect by profession, visited France. They went to see Mont Blanc Tunnel which is a highway tunnel between France and Italy, under the Mont Blanc Mountain in the Alps, and has a parabolic cross-section. The mathematical representation of the tunnel is shown in the graph.</p>   <p>Based on the above information, answer the following questions.</p> <p>(1) The zeroes of the polynomial whose graph is given, are (a) -2, 8 (b) -2, -8 (c) 2,8 (d) -2,0</p> <p>(2) What will be the expression of the polynomial given in diagram? (a) $x^2 - 6x + 16$ (b) $-x^2 + 6x + 16$ (c) $x^2 + 6x + 16$ (d) $-x^2 - 6x - 16$</p>	3	HOTS
24.	. Amit is planning to buy a house and the layout is given below. The design and the measurement has been made such that areas of two bedrooms and kitchen together is 95 sq.m.	3	HOTS



Based on the above information, answer the following questions:

1. Form the pair of linear equations in two variables from this situation.
2. Find the length of the outer boundary of the layout.



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CLASS - X



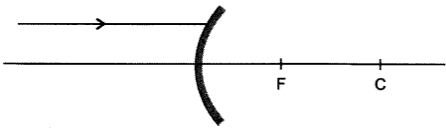
ACADEMIC SESSION 2022-23

WORKSHEET (SELF -ASSESSMENT)

Subject: Science

Assignment No: 03

Allotment Date: 20 July 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	<p>Q1. Redraw the diagram given below in your answer book and show the direction of the light ray after reflection from the mirror.</p>  <p>Q2. What is redox reaction? Give one example of it.</p> <p>Q3. Why is it advised to use iodised salt in our diet ?</p>	<p>1</p> <p>1</p> <p>1</p>	Information
2	<p>Q4. What is the difference between reflex action and walking?</p> <p>Q5. For which position of the object does a convex lens form a virtual and erect image? Explain with the help of a ray diagram.</p> <p>Q6. A student dropped few pieces of marble in dilute hydrochloric acid contained in a test tube. The evolved gas was then passed through lime water. What change would be observed in lime water? Write balanced chemical equation for both the change observed?</p>	<p>3</p> <p>3</p> <p>3</p>	Understanding
3	<p>Q7. How far should an object be placed from a convex lens of focal length 20 cm to obtain its image at a distance of 30 cm from the lens? What will be the height of the image if the object is 6 cm tall?</p> <p>Q8. Give one example each of</p> <p>(a) Thermal decomposition</p> <p>(b) Electrolytic decomposition</p> <p>(c) Photo decomposition</p>	<p>3</p> <p>3</p>	HOT
4	<p>Q9. Draw a neat and labelled diagram of a human neuron.</p> <p>Q10. Define 'refractive index of a transparent medium.' What is its unit? Which has a higher refractive index, glass or water?</p>	<p>3</p> <p>3</p>	Interdisciplinary

5	<p>Q11. Astha has been collecting silver coins and copper coins. One day she observed a black Coating on silver coins and a green coating on copper coins. Which chemical phenomenon is responsible for these coatings? Write the chemical name of black and green coatings?</p> <p>Q12. Write the balanced chemical equation for the following reaction:</p> <p>(i) Phosphorus burns in presence of chlorine to form phosphorus penta chloride.</p> <p>(ii) Burning of natural gas.</p> <p>(iii) The process of respiration.</p>	3 3	Analytical Skill
6	<p>Q13. (a) If the image formed by a lens is diminished in size and erect, for all positions of the object, what type of lens is it?</p> <p>(b) Name the point on the lens through which a ray of light passes undeviated.</p> <p>(c) An object is placed perpendicular to the principal axis of a convex lens of focal length 20 cm. The distance of the object from the lens is 30 cm. Find (i) the position (ii) the magnification and (iii) the nature of the image formed.</p>	5	Critical Thinking and Problem Solving
7	<p>Q14. Explain the process of transmission of impulses from one neuron to another.</p>	5	Evaluation



ARMY PUBLIC SCHOOL GWALIOR

CLASS - X



ACADEMIC SESSION 2022-23

WORKSHEET (SELF -ASSESSMENT)

Subject: Social Science

Assignment No: 03

Allotment Date: 20 July 2022

S. NO.	QUESTIONS	MARKS	NATURE		
1	Mention any two reasons of water scarcity.	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? <table border="1" data-bbox="337 1780 1154 1877"><tr><td>Column I</td><td>Column II</td></tr></table>	Column I	Column II	1	Interdisciplinary
Column I	Column II				

	<table border="1"> <tr> <td>a) State government</td> <td>i) State List</td> </tr> <tr> <td>b) Central government</td> <td>ii) Union List</td> </tr> <tr> <td>c) Central and state government</td> <td>iii) Concurrent List</td> </tr> <tr> <td>d) Local government</td> <td>iv) Residuary powers</td> </tr> </table>	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		
a) State government	i) State List										
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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. (d) (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 labourer.	1	Understanding
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. (e) Both (A) and (R) are true and (R) is the correct explanation of (A). (f) Both (A) and (R) are true and (R) is not the correct explanation of (A). (g) (A) is true, but (R) is false. (h) (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 India locate and label the following with suitable symbols. (i) Rana Pratap Sagar Dam . (ii) Salal Dam. (iii) Koyna Dam	3	Information