



# ARMY PUBLIC SCHOOL GWALIOR

## CLASS -X

### ACADEMIC SESSION 2021-22

### WORKSHEET (SELF –ASSESSMENT)



Subject: English

Assignment No. : 9

Allotment Date: 15/12/2021

S.No.	QUESTIONS	MARKS	NATURE
1	You are John/Urmilla, the Tour In charge of Grant Public School, Agra. During the summer break, you are planning to organize a tour to a place of historical importance. Write a letter to The National Travel Agency, Agra inquiring about the charges, facilities and all the other necessary details.	[6]	Information
2	You are store Incharge of B.P.J. Senior Secondary School, Meerut. You require various items of furniture such as chairs, desks, almirahs etc. for your school. Mentioning the details of the items, write a letter to Messers Chadha Furniture House, 15 Karol Bagh, Delhi placing the order for furniture. Ask for the discount available on the purchase.	[6]	Communication Skill
3	Do you think that one should be fun of because of their preferences and choices in life? Explain in the context of Custard the dragon. Or 'Never mind', she said, " I can get on by myself." "you don't have to help me," said Valli to the conductor. She shows extraordinary courage in making the bus journey alone. Taking inspiration from Valli's character, write how ability and courage to take risk are essential to fulfil one's dream.	[6]	HOT

4	<p>Change the following into Indirect Speech:</p> <p>a) He said, 'Let us wait for the award.'</p> <p>b) 'Cheer up, mother, I'll go and get work somewhere,' said Jack.</p> <p>c) 'Which is the proper way to answer this question, father?' the boy enquired.</p> <p>d) 'What a stupid fellow you are!' he angrily remarked.</p>	[4]	Interdisciplinary
5	<p>Choose the correct alternative:</p> <p>a) I (am to leave, would leave, was to have left) on Thursday. But on Thursday I had a terrible cold, so I decided to wait till Saturday.</p> <p>b) He (used, is used, was used) to play cricket before his marriage.</p> <p>c) (Shall, Will, Would) I carry the box into the house for you?</p> <p>d) He (will, can, might) come, but I should be surprised.</p>	[4]	Analytical Skill
6	<p>7. Read the extract and answer the following.</p> <p>' Don't eat that chocolate, Amanda! Remember your acne, Amanda! Will you please look at me when I'm speaking to you, Amanda!'</p> <p>a) Who is the speaker of these lines? b) Why is Amanda advised not to eat chocolate? c) What is Amanda asked to do? d) Find a word from the stanza that means ' bring to mind past things'.</p>	[4]	Understanding
7	<p>Answer the following questions in about 30 to 40 words only.</p> <p>a) "Belinda tickled him, she tickled him unmerciful..." Why?</p> <p>b) Why does the conductor refer to Valli as 'madam'?</p> <p>c) How do you usually understand the idea of 'selfishness'? Do you agree with Kisa Gautami that she was being 'selfish in her grief'?</p>	[6]	Evaluation
8		[4]	Critical Thinking and Problem Solving



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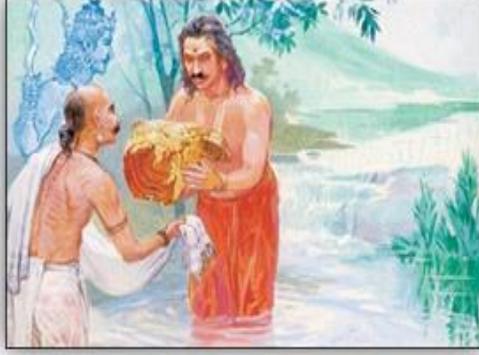


Subject: Hindi

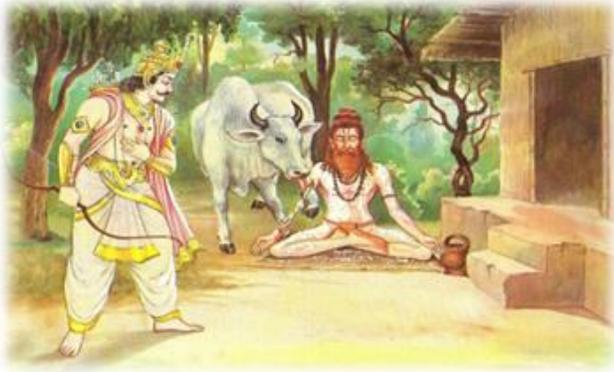
Assignment No. : 9

Allotment Date: 15/12/2021

S. NO.	QUESTIONS	MARKS	NATURE
1	अपने विद्यालय के प्रधानाचार्य को शैक्षिक भ्रमण हेतु दूर आयोजित कराने हेतु प्रार्थना पत्र लिखिए।	5	Information
2	अपना पुराना मकान बेचने के लिए एक आकर्षक विज्ञापन तैयार कीजिए।	5	Communication Skills
3	निम्नलिखित पंक्तियों का भाव स्पष्ट कीजिये- 1. उसी उदार की कथा सरस्वती बखानती उसी उदार से धरा कृतार्थ भाव मानती। उसी उदार की सदा सजीव कीर्ति कूजती तथा उसी उदार को समस्त सृष्टि पूजती। अखंड आत्म भाव जो असीम विश्व में भरे वही मनुष्य है कि जो मनुष्य के लिए मरे।।	10	Interdisciplinary



2. क्षुधार्त रन्तिदेव ने दिया करस्थ थाल भी  
 तथा दधीचि ने दिया परार्थ अस्थिजाल भी।  
 उशीनर क्षितीश ने स्वमांस दान भी किया  
 सहर्ष वीर कर्ण ने शरीर-चर्म भी दिया।  
 अनित्य देह के लिए अनादि जीव क्या डरे  
 वही मनुष्य है कि जो मनुष्य के लिए मरे।।



4	मनुष्यता र कविता के द्वारा कवि क्या सन्देश देना चाहता है ङ	5	Analytical Skill
5	निम्नलिखित में से किसी एक विषय पर 100 से 150 शब्दों में अनुच्छेद लिखिए।  क )- जीवन में खेल कूद का महत्व अथवा	6	Critical Thinking and Problem Solving

	ख) पुस्तकालय का महत्व		
6	<p>निम्नलिखित प्रश्नों के उत्तर दीजिए</p> <ol style="list-style-type: none"> <li>1 लेखक के मित्र ने मानसिक रोग के क्या-क्या कारण बताए? आप इन कारणों से कहाँ तक सहमत हैं?</li> <li>2 कंपनी के वकील का कत्ल करने के बाद वजीर अली ने अपनी हिफाज़त कैसे की?</li> <li>3 नई श्रेणी में जाने और नई कापियों और पुरानी किताबों से आती विशेष गंध से लेखक को बालमन क्यों उदास हो उठता था?</li> </ol>	9	Evaluation



ARMY PUBLIC SCHOOL GWALIOR

CLASS -X

ACADEMIC SESSION 2021-22

WORKSHEET (SELF –ASSESSMENT)



Subject: Mathematics

Assignment No. : 9

Allotment Date: 15/12/2021

S. NO.	QUESTIONS	MARKS	NATURE
1	. The roots of $100x^2 - 20x + 1 = 0$ is: (a) $1/20$ and $1/20$ (b) $1/10$ and $1/20$ (c) $1/10$ and $1/10$ (d) None of the above	1	understanding
2	If $1/2$ is a root of the quadratic equation $x^2 - mx - 5/4 = 0$ , then value of m is: (a) 2 (b) -2 (c) -3 (d) 3	1	application
3	A train travels 360 km at a uniform speed. If the speed had been 5 km/h more, it would have taken 1 hour less for the same journey. Find the speed of the train. (a) 30 km/hr (b) 40 km/hr (c) 50 km/hr (d) 60 km/hr	1	understanding
4	Which one of the following is not a quadratic equation? (a) $(x + 2)^2 = 2(x + 3)$ (b) $x^2 + 3x = (-1)(1 - 3x)^2$ (c) $(x + 2)(x - 1) = x^2 - 2x - 3$ (d) $x^3 - x^2 + 2x + 1 = (x + 1)^3$	1	Interdisciplinary

5	A quadratic equation $ax^2 + bx + c = 0$ has no real roots, if (a) $b^2 - 4ac < 0$ (b) $b^2 - 4ac = 0$ (c) $b^2 - 4ac < 0$ (d) $b^2 - ac < 0$	1	Analytical Skill
6	The $n^{\text{th}}$ term of an A.P. is given by $a_n = 3 + 4n$ . The common difference is (a) 7 (b) 3 (c) 4 (d) 1	1	Critical Thinking
7	The $(n - 1)^{\text{th}}$ term of an A.P. is given by 7, 12, 17, 22, ... is (a) $5n + 2$ (b) $5n + 3$ (c) $5n - 5$ (d) $5n - 3$	1	application
8.	The 10 <sup>th</sup> term from the end of the A.P. -5, -10, -15, ..., -1000 is (a) -955 (b) -945 (c) -950 (d) -965	1	Analytical Thinking
9	Find the sum of 12 terms of an A.P. whose $n^{\text{th}}$ term is given by $a_n = 3n + 4$ (a) 262 (b) 272 (c) 282 (d) 292	1	Understanding
10	The sum of all two digit odd numbers is (a) 2575 (b) 2475 (c) 2524 (d) 2425	1	Application
11	Find the roots of quadratic equation by factorisation: $\sqrt{2}x^2 + 7x + 5\sqrt{2} = 0$	2	Interdisciplinary
12.	<b>Find two consecutive positive integers, the sum of whose squares is 365.</b>	2	Application
13	<b>If -5 is a root of the quadratic equation <math>2x^2 + px - 15 = 0</math> and the quadratic equation <math>p(x^2 + x) + k = 0</math> has equal roots, find the value of k.</b>	2	Evaluation
14	If 17th term of an A.P. exceeds its 10th term by 7. The find its common difference .	2	Analytical Thinking
15.	Find the number of multiples of 4 between 10 and 250 .	2	Evaluation
16.	If the 2nd term of an AP is 13 and the 5th term is 25, what is its 7th term?	2	Evaluation
17.	<b>Find the value of p, for which one root of the quadratic equation <math>px^2 - 14x + 8 = 0</math> is 6 times the other.</b>	2	Analytical thinking
18.	<b>Find the discriminant of the equation <math>3x^2 - 2x + 1/3 = 0</math> and hence find the nature of its roots. Find them, if they are real.</b>	3	Problem solving

19.	Find the 9th term from the end (towards the first term) of the A.P. 5,9,13, ..., 185.	3	Evaluation
20.	<p>The speed of a motor boat is 20 km/hr. For covering the distance of 15 km the boat took 1 hour more for upstream than downstream.</p>  <p><b>1. Let speed of the stream be <math>x</math> km/hr. then speed of the motorboat in upstream will be</b>  a) 20 km/hr b) <math>(20 + x)</math> km/hr c) <math>(20 - x)</math> km/hr  d) 2 km/hr</p> <p><b>2. What is the relation between speed ,distance and time?</b>  a) speed = (distance )/time b) distance=(speed )/time  c) time = speed x distance d) speed = distance x time</p> <p><b>3. Which is the correct quadratic equation for the speed of the current?</b>  a) <math>x^2 + 30x - 200 = 0</math> b) <math>x^2 + 20x - 400 = 0</math>  c) <math>x^2 + 30x - 400 = 0</math> d) <math>x^2 - 20x - 400 = 0</math></p> <p><b>4. What is the speed of current ?</b>  a) 20 km/hour b) 10 km/hour c) 15 km/hour  d) 25 km/hour</p>	5	Interdisciplinary

	<p><b>5. How much time boat took in downstream?</b>  a) 90 minute b) 15 minute c) 30 minute d) 45 minute</p>		
21.	<p>Your friend Veer wants to participate in a 200m race. He can currently run that distance in 51 seconds and with each day of practice it takes him 2 seconds less. He wants to do in 31 seconds.</p>  <p>1. Which of the following terms are in AP for the given situation</p> <p>a) 51,53,55.... b) 51, 49, 47.... c) -51, -53, -55.... d) 51, 55, 59...</p> <p>2. What is the minimum number of days he needs to practice till his goal is achieved</p> <p>a) 10 b) 12 c) 11 d) 9</p> <p>3. Which of the following term is not in the AP of the above given situation</p> <p>a) 41 b) 30 c) 37 d) 39</p> <p>4. If nth term of an AP is given by <math>a_n = 2n + 3</math> then common difference of an AP is</p> <p>a) 2 b) 3 c) 5 d) 1</p>	5	Critical thinking

	<p>5. The value of <math>x</math>, for which <math>2x</math>, <math>x+ 10</math>, <math>3x + 2</math> are three consecutive terms of an AP</p> <p>a) 6 b) -6 c) 18 d) -18</p>		
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**ARMY PUBLIC SCHOOL GWALIOR**

**CLASS -X**



**ACADEMIC SESSION 2021-22**

**WORKSHEET (SELF –ASSESSMENT)**

**Subject: Science**

**Assignment No. : 9**

**Allotment Date: 15/12/2021**

<b>S. NO.</b>	<b>QUESTIONS</b>	<b>MARKS</b>	<b>NATURE</b>
<b>1</b>	Q1. Write the name and formula of the second member of homologous series having general formula $C_nH_{2n-2}$ . Q2. Name the type of current: (a) used in household supply. (b) given by a cell. Q3. Why is DNA copying necessary during reproduction?	1 1 1	Information
<b>2</b>	Q4. List any three differences between pollination and fertilisation. Q5. List one function of each of the following: a.Ovaries b. Testes c.Prostate Gland Q6. What are hydrocarbons? Write the name and general formula of: (i) Saturated hydrocarbons. (ii) Unsaturated hydrocarbons, and draw the structure of one hydrocarbon of each type.	3 3 3	Understanding
<b>3</b>	Q7. State the consequences that can lead to a short circuit. List three factors which may lead to the short circuit. Q8. Give reasons for the following:	3	HOT

	(i) Graphite is a good conductor of electricity. (ii) Acetylene burns with a sooty flame. (iii) Diamond has a high melting point.	3	
<b>4</b>	Q9. Draw a longitudinal section of a flower and label all the parts. Q10. Explain the following methods of contraception giving one example of each: a. Barrier Method b. Hormonal Imbalance Method c. surgical Method.	3 3	Interdisciplinary
<b>5</b>	Q11. Explain why carbon forms compounds mainly by covalent bond. Explain in brief two main reasons for carbon forming a large number of compounds.	5	Analytical Skill
<b>6</b>	Q12. (a) Describe activity with labelled diagram to show that a current carrying conductor experience a force in a magnetic field. (b) State the rule to determine the direction of force.	5	Critical Thinking and Problem Solving
<b>7</b>	Q13. Compare the functioning of alveoli in lungs and nephrons in the kidneys with respect to their structure and functioning. Q14. Define 'refractive index of a transparent medium.' What is its unit? Which has a higher refractive index, glass or water?	3 3	Evaluation



**ARMY PUBLIC SCHOOL GWALIOR**

**CLASS -X**

**ACADEMIC SESSION 2021-22**

**WORKSHEET (SELF –ASSESSMENT)**



**Subject: Social Science**

**Assignment No. : 9**

**Allotment Date: 15/12/2021**

<b>S. NO.</b>	<b>QUESTIONS</b>	<b>MARKS</b>	<b>NATURE</b>
<b>1</b>	Why is iron and steel industry known as a heavy industry ?	<b>1</b>	Information
<b>2</b>	( A ) Assertion : Textile industry occupies unique position in the Indian economy. (R) Reason: It contribute significantly to industrial production. (a) Both A and B are true and R is the correct explanation of A. (b) Both A and B are true but R is not the correct explanation of A. (c) A is correct but R is wrong. (d) A is wrong but R is correct.	<b>1</b>	Understanding
<b>3</b>	What is small scale industry . Give an example.	<b>1</b>	Understanding
<b>4</b>	Which of the following is True with reference to money (i) It acts as medium of exchange. (ii) It includes paper notes, coins and demand deposits. (a) Both (i) and (ii) are true  (b) (i) is true (ii) is false	<b>1</b>	Interdisciplinary

	<p>(c) Both (i) and (ii) are false</p> <p>(d) (ii) is true (i) is false</p>		
5	Prove with an argument that there is a great need to expand formal sources of credit in rural India.	1	Critical Thinking and Problem Solving
6	<p>Choose the correct answer:</p> <p>(i) In a SHG, most of the decisions regarding savings and loan activities are taken by:</p> <p>(a) Bank</p> <p>(b) Members</p> <p>(c) Non- government organization</p>	1	Critical Thinking and Problem Solving
7	Why one cannot refuse a payment made in rupees in India ?	1	Understanding
8	<p>' Industrialisation and urbanisation go hand in hand'. Justify by giving one point.</p>	1	Understanding
9	Name the most important agro based industries of India.	1	Understanding
10	<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><b>Assertion</b> (A) Barter system has limitation of double coincidence of wants.</p> <p><b>Reason</b> (R) Money removes the problem of double coincidence of wants.</p> <p>Options</p> <p>(a) Both (A) and (R) are true and (R) is the correct explanation of (A).</p> <p>(b) Both (A) and (R) are true and (R) is not the correct explanation of (A).</p> <p>(c) (A) is true, but (R) is false.</p>	1	Critical Thinking and Problem Solving

	(d) (A) is false , but (R) is true.		
<b>11</b>	Why is iron and steel industry called the basic industry? Explain.	<b>3</b>	Information
<b>12</b>	How was history re- interested in creating a feeling of nationalism ? Explain with examples.	<b>3</b>	Analytical Skill
<b>13</b>	How do political Parties shape the public opinion? Explain with three examples.	<b>3</b>	Analytical Skill
<b>14</b>	Why is credit a crucial element in the economic development?	<b>3</b>	Communication Skills

<b>15</b>	“ The economic strength of a country is measured by the development of manufacturing industries.” Support the statement with arguements.	<b>5</b>	Information
<b>16</b>	What is the role of SHGs ? What are the reasons of its growing popularity?	<b>5</b>	Information
<b>17</b>	Why is it necessary for the banks and cooperative societies provide more loan facilities to the rural households in India?	<b>5</b>	Interdisciplinary
<b>18</b>	On an outline map of India locate and label the following with suitable symbols.  (i) Bhilai- An Iron and Steel Plant (ii) Narora- A Nuclear Power Plant (iii) Kandla- A major Sea Port	<b>3</b>	Information

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# ARMY PUBLIC SCHOOL GWALIOR

## CLASS -X

### ACADEMIC SESSION 2021-22

#### WORKSHEET (SELF –ASSESSMENT)

Subject: Health and Physical Education

Assignment No. : 9

Allotment Date: 15/12/2021



S.NO	QUESTIONS	SKILLS	MARKS:- 1X10=10
1.	What is khelo India scheme? Explain.	Thinking	1
2.	Write down a short note about Arjuna award?	Critical	1
3.	Write down a short note about Dhyanchand award?	Thinking	1
4.	Write down a short note about Sports Authority of India?	Self-regulation	1
5.	Explain about Maulana Abul Kalam Azad trophy?	Leadership	1
6.	What are the functions of Sport Authority of India?	Critical	1
7.	Explain about School Games Federation of India?	Self-regulation	1
8.	Explain about All India Council of Sports?	Initiative	1
9.	What do you mean by sports service?	Problem-solving	1
10.	Arjuna award is given in how many categories?	Thinking	1



**ARMY PUBLIC SCHOOL GWALIOR**  
**CLASS -X**



**ACADEMIC SESSION 2021-22**  
**WORKSHEET (SELF –ASSESSMENT)**

**Subject: Art Education**

**Assignment No. : 9**

**Allotment Date: 05/12/2021**

<b>Sr. no.</b>	<b>Answer the following Question</b>	<b>Nature</b>	<b>Marks 1x10= 10</b>
1	What is the term in kathak describes poem called ?	Informative	1
2	Having or showing great love or support for our country is called -----.	Informative	1
3	What is an alternative term to describe the feeling of national pride ?	Informative	1
4	Complete the phrase, -----in diversity .	Informative	1
5	The dances are performed based on feeling of patriotism are called -----.	Informative	1
6	Ae watan is the type of ----- song .	Thinking	1
7	On Independence day, the event is concluded with -----.	Thinking	1
8	Kathak belongs to which state ?	Informative	1

9	How many types of classical dance form are there?	Informative	1
10	Bharatnatyam is the type of ----- dance.	Informative	1