ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX
ACADEMIC SESSION 2023-24
WORKSHEET (SELF –ASSESSMENT)

Subject: English   **Assignment No. : 6**
Allotment Date: 25 October 2023

S. NO	QUESTIONS	MARKS	NATURE
	You are Ankit/Ankita, member of the Eco Club of your school. A few weeks school celebrated Earth Day. Various informative programmes were showca in the morning assembly. Write a diary entry, expressing what you learnt thr those activities.	**5 M**	Critical Thinking
	Read the extract and answer the questions that follow: "They, too, aware of sun and air and water, Are fed by peaceful harvests, by war's long winter starv'd. Their hands are ours, and in their lines, we read A labour not different from our own." **1. Who does 'they' refer to in the first line?** 2. **are they aware of?** **3. Explain the expression: 'Their hands are ours'.** **4. Which poetic device has been used in "war's long winter starv'd"?** **5. Explain: 'A labour not different from our own'.**	5	Understanding
	Attempt **ANY ONE DESCRIPTIVE PARAGRAPH** from i and ii. i) Your father has been transferred from his job to another city and you shifted in your new school. How was your first day in your classroom? Writ experience in about 100-120 words only. ii) You love your father very much, for he is an ideal father. Describe him i own words about his characteristics.	5	Communication

		Grammar	**1x3**	Analytical
		i) A child specialist shifted his clinic and left a hoarding on the ground floor. Identify the error on his clinic's hoarding and supply the correction, for the following. Climb to the first floor. The pedestrian is upstairs. Use the given format for your response. 	Error	Correction
		  ii) **Complete the following by choosing the correct option.** Will the mason ………………constructing this building for two hours? (a) had been (b)has been (c) have been (d) have had iii) **Fill in the blank with suitable determiner.** The calves were grazing in the field with ……..mothers for many days. (a) his (b) their (c) its (d) this		

			2	Interdisciplinary
		Read the conversation given below and complete the following. Nayan : At last, you have decided to go to Bengaluru. Congratulations, you are going to Silicon city. Amit : They say Bengaluru is one of the most beautiful cities in India. Congratulating Nayan that at last he decided to go to Bengaluru he added (a) ………….Then Amit replied that (b)……………..		

		Answer **ANY SIX** questions in 30-40 words each.	**2x6**	Evaluation
		1. How did Abdul Kalam earn his first wages? 2. How was Abdul treated by the wife of his science teacher when he wa invited to have meal? 3. Why was the science teacher called a rebel? 4. What message does the poet convey through the poem 'No Men Are Foreign? 5. "It seemed too large to give away." What does it stand for? What does above expression show about the woman? 6. How does the poet compare life with others in stanza III of the poem 'I Men Are Foreign'. 7. 'You are too selfish to dwell in a human form.' Who said this to whom? did he say so?(A Legend of the Northland)		

	Answer **ANY TWO** of the following in about 120 words each.	**4x2**	HOT
	1. Once you decide to change the system, such problems have to be confro... What system is this sentence referring to? What are such problems? 2. What is the message of the poem ' A Legend of the Northland'? 3. 'Patriotism does not mean hating the people of other countries'. Do you a... ? Explain in reference to the poem.		

ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX
ACADEMIC SESSION 2023-24
WORKSHEET (SELF –ASSESSMENT)

Subject: Hindi   **Assignment No. : 6**
Allotment Date: 25 October 2023

S. NO.	QUESTIONS	MARKS	NATURE
1	आप जिम कार्बेट अभयारण्य घूमकर लौटे हैं। वहाँ के रोमांचक एवं अनूठे अनुभव को बताते हुए बड़ी बहन को पत्र लिखिए।	5	Information
2	धूम्रपान स्वास्थ्य के लिए हानिकारक है विषय पर दो मित्रों के बीच बातचीत का संवाद लेखन 50 से 60 शब्दों में कीजिए|	6	Communication Skills
3	निम्नलिखित का भाव स्पष्ट कीजिए- (क) अपने पतझर के सपनों का मैं भी जग को गीत सुनाता।'' (ख) गाता शुक जब किरण वसंती	2	Understanding

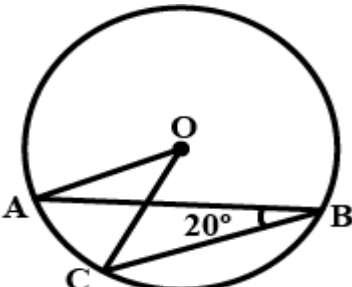|			
	छूती अंग पर्ण से छनकर	**2**	
	निम्नलिखित शब्दों के प्रत्यय लिखिए			
	पुष्पित-		
	लोभी-	**3**	
	कुलीन-		
	निम्नलिखित शब्दों के उपसर्ग लिखिए			
	अधपका		
	अनजान	**3**	
	कमजोर		
4	'गीत-अगीत' के केंद्रीय भाव को लिखिए।	**5**	Analytical Skill
5	निम्नलिखित में से किसी एक विषय पर **80 – 100** शब्दों में अनुच्छेद लिखिए	दिनचर्या में खेलों का योगदान अथवा मनोरंजन के आधुनिक साधन	**5**	Critical Thinking and Problem Solving
6	निम्नलिखित प्रश्नों के उत्तर दीजिए- 1. मनुष्य को प्रकृति किस रूप में आंदोलित करती है? अपने शब्दों में लिखिए। 2.सभी कुछ गीत है, अगीत कुछ नहीं होता। कुछ अगीत भी होता है क्या? स्पष्ट.कीजिए। 3.जब शुक गाता है, तो शुकी के हृदय पर क्या प्रभाव पड़ता है?	**9**	Evaluation
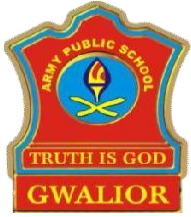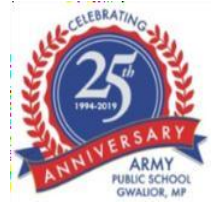
Subject: Mathematics
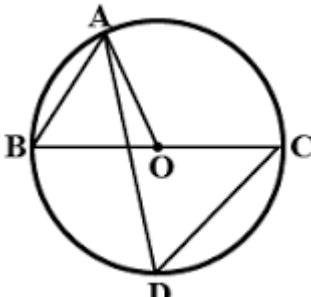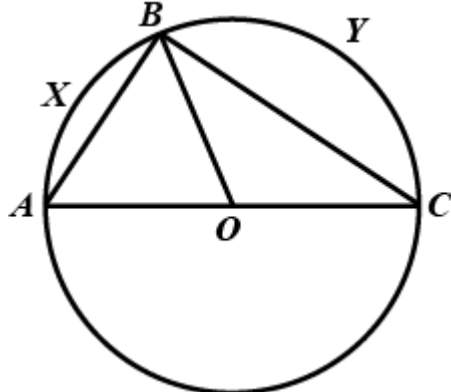
Assignment No.: 6
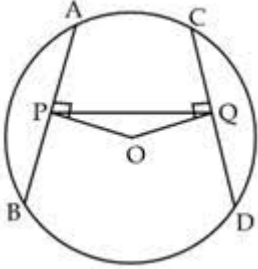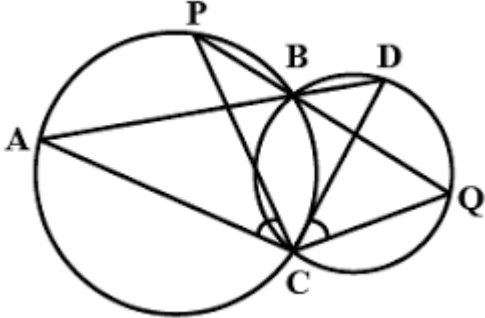
Allotment Date: 25 October

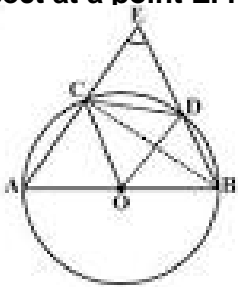| S.NO.	QUESTION	MARKS	NATURE
1	ABCD is a cyclic quadrilateral such that AB is a diameter of the circle circumscribing it and $\angle ADC = 140^0$, then $\angle BAC$ is equal to: (A) 80^0 (B) 50^0 (C) 40^0 (D) 30^0	1	Understanding
2	The longest chord of circle is also known as: (A) Center (B) Radius (C) Diameter (D) Area	1	Application
3	AD is a diameter of a circle and AB is a chord. If AD = 34 cm, AB = 30 cm, the distance of AB from the centre of the circle is: (A) 17 cm (B) 15 cm (C) 4 cm (D) 8 cm	1	Understanding
4	If AB = 12 cm, BC = 16 cm and AB is perpendicular to BC, then the radius of the circle passing through the points A, B and C is : (A) 6 cm (B) 8 cm (C) 10 cm (D) 12 cm	1	Interdisciplinary
5	Diagonals of a cyclic quadrilateral are the diameters of that circle, then quadrilateral is a (a) parallelogram (b) square (c) rectangle (d) trapezium	1	Analytical Skill
6	If an equilateral triangle PQR is inscribed in a circle with centre O, then +QOR is equal to (a) 60^0 (b) 30^0 (c) 120^0 (d) 90^0	1	Critical Thinking and Problem Solving
7	The chords of a circle which are .... from the centre are equal.	1	Application

8.	The sum of either pair of opposite angles of a cyclic quadrilateral is	1	Analytical Thinking
9	Assertion (A) : The length of a chord which is at a distance of 5 cm from the centre of a circle of radius 10 cm is 17.32 cm. Reason (R) : The perpendicular from the centre of a circle to a chord bisects the chord. (a) Both assertion and reason are true and reason is the correct explanation of assertion. (b) Both assertion and reason are true but reason is not the correct explanation of assertion. (c) Assertion is true but reason is false. (d) Assertion is false but reason is true	1	Understanding
10	Assertion (A) : Two diameters of a circle intersect each other at right angles. Then the quadrilateral formed by joining their end-points is a square. Reason (R) : Equal chords subtend equal angles at the centre. (a) Both assertion and reason are true and reason is the correct explanation of assertion. (b) Both assertion and reason are true but reason is not the correct explanation of assertion. (c) Assertion is true but reason is false. (d) Assertion is false but reason is true	1	Interdisciplinary
11	In Fig. if $\angle ABC = 20^0$, then $\angle AOC$ is equal to: (A) 20^0 (B) 40^0 (C) 60^0 (D) 10^0 	1	Interdisciplinary

12.	In Fig. 10.8, BC is a diameter of the circle and ∠BAO = 60⁰. Then ∠ADC is equal to : (A) 30⁰ (B) 45⁰ (C) 60⁰ (D) 120⁰ 	1	Application
13	AB and AC are two equal chords of a circle. Prove that the bisector of the angle BAC passes through the centre of the circle.	2	Evaluation
14	If a pair of opposite sides of a cyclic quadrilateral are equal, prove that its diagonals are also equal	2	Analytical Thinking
15.	If two equal chords of a circle intersect, prove that the parts of one chord are separately equal to the parts of the other chord.	2	Evaluation
16.	Point C is mid-point of the line segment AB. Prove that every line segment has one and only one mid-point.	2	Evaluation
17.	Prove that if chords of congruent circles subtend equal angles at their centres, then the chords are equal.	2	Analytical thinking
18.	In Fig, AB is a diameter of the circle, CD is a chord equal to the radius of the circle. AC and BD when extended intersect at a point E. Prove that ∠ AEB = 60° 	2	Problem solving
19.	: In Fig. 10.11, AOC is a diameter of the circle and arc AXB = half of arc BYC. Find ∠BOC. 	2	Evaluation

20.	: In Fig. 10.2, AB and CD are two equal chords of a circle with centre O. OP and OQ are perpendiculars on chords AB and CD, respectively. If ∠POQ = 150⁰, then ∠APQ is ? 	2	Interdisciplina r y
21.	Two circles intersect at two points B and C. Through B, two line segments ABD and PBQ are drawn to intersect the circles at A, D and P, Q respectively . Prove that ∠ACP = ∠ QCD. 	3	Critical thinking
22.	Prove that cyclic quadrilateral is a rectangle	3	HOTS
23.	Prove that the quadrilateral formed (if possible) by the internal angle bisectors of any quadrilateral is cyclic	3	HOTS
24.	A circular park of radius 20m is situated in a colony. Three boys Ankur, Syed and David are sitting at equal distance on its boundary each having a toy telephone in his hands to talk each other. Find the length of the string of each phone	3	HOTS

ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX
ACADEMIC SESSION 2023-24
WORKSHEET (SELF –ASSESSMENT)

Subject: Science   Assignment No. : 6
Allotment Date: 25 October 2023

S. NO.	QUESTIONS	MARKS	NATURE
1	Q1. Who formulated the universal law of gravitation? Q2. Define the atomic mass unit. Q3. What do we get from cereals, pulses,fruits and vegetables?	1 1 1	Information
2	Q4.Define Rabi and Kharif crops? Give two examples of each. Q5 The earth attracts an apple. Does the apple also attract the earth? If it does, why does the earth not move towards the apple? Q6. Write the chemical formula of the following. (a) Magnesium chloride (b) Calcium oxide(c) Copper nitrate(d) Aluminium chloride (e) Calcium carbonate	3 3 3	Understanding
3	Q7. Prove that if the earth attracts two bodies placed at same distance from the centre of the earth with the same force, then their masses are equal. Q8. State the Postulates of Dalton Theory?	3 3	HOT
4	Q9.What do you mean by the following: A) Green revolution B) White revolution C) Blue revolution Q10. What are isotopes? Name the isotopes of hydrogen and draw the structure of their atoms.	3 3	Interdisciplinary
5	Q11. What is chromatography? State its two applications. Q12. Give three differences between acceleration due to gravity (g) and universal gravitational constant (G).	3 3	Analytical Skill
6	Q12. State universal law of gravitation. Derive an expression for force of attraction between two bodies and then define gravitational constant.	5	Critical Thinking and Problem Solving

7	Q13. Discuss the role of Hybridization and Genetic engineering in crop improvement.	5	Evaluation

Subject: Social Science   **Assignment No. : 6**
Allotment Date: 25 October 2023

S. NO.	QUESTIONS	MARKS	NATURE
1	1………………… refers to the sum of weather conditions and variations over a large area for a long period of time. (i) Monsoon (ii) Climate (iii) Weather (iv) Environmental effects 2. Which among the following fluctuates very often even within a day? (i) Weather	1 1	Information

	(ii) Climate	1	
	(iii) Atmospheric conditions		
	(iv) Seasons		
	3. India has which type of climate?		
	(i) Oceanic	1	
	(ii) Monsoon		
	(iii) Tundra		
	(iv) Tropical Savanna		
		1	
	4. The climate of India strongly influenced by-		
	(i) Westerlies winds		
	(ii) Monsoon winds		
		1	
	(iii) Easterlies Winds		

	(iv) Local winds 5. The monsoon is experienced at which of the following regions? (i) Tropical (ii) Polar (iii) Temperate (iv) None of these 6. Which one of the following is not a factor that makes an election democratic? (i) There should be something to choose from. (ii) Parties and candidates should be free to contest elections. (iii) The choice should not be offered at regular intervals.	1 1	

(iv) The candidate preferred by the people should ger elected.		
7. What proportion of seats are reserved in rural and urban local bodies for women candidates?	1	
(i) One-third of the total seats.		
(ii) Two-third of the total seats.		
(iii) Half of the total seats.		
(iv) One-fourth of the total seats.	1	
8. The Chief Election Commissioner is appointed by whom among the following?		
(i) Lok Sabha Speaker		
(ii) The Chief Justice of India		

(iii) The President of India

(iv) The Vice-President of India

9. What does EVM stand for?

(i) Electronic Vending Machine

(ii) Electronic Voting Machine

(iii) Electoral Voting Machine

 (iv) Electoral Volunteer Mechanism

10. What do we mean when we say that a constituency is reserved for the Scheduled Castes(SC)?

(i) Any candidates can fight the election but only the SC candidates will be declared the winner.

(ii) Any candidate can fight the election but only SC women candidate will be declared the winner.

	(iii) Only SC candidates can fight the election.			
	(iv) None of the above.			
2	(a) Differentiate between weather and climate.	**3**		Understanding
	(b) What do you mean by constitutional amendments? Why are they essential?	**3**		
3	(a) "Monsoons are known for their uncertainties and vagaries." Explain.	**3**		HOT
	(b) What do you mean by-election? Why it is needed in a democracy?	**3**		

4	(a) Changes in the pressure condition over the Southern oceans also affect the monsoons. Explain. or (b) What do you mean by-election? Why it is essential for the progress of a country?	3	Interdisciplinary
5	(a) How does climate regulate the standard of living and food habits of people of the Indian sub-continent? or (b) Describe how elections held in India ?	5 5	Analytical Skill
6	Read the given paragraph and answer the following questions. A large amount of money is spent on conducting elections in	5	Critical Thinking and Problem Solving

India. For instance, the government spent rs 3500 crores on conducting Lok Sabha elections in 2014. That works out to about rs 40 per person on the voters' list. The amount spent by parties and candidates was around rs 30,000 crores or rs 500 per voter.

Some people say that elections are a burden on our people, that our poor country cannot afford to hokd elections once every five years.

Answer the following questions.

(a) Do you think elections after every 5 years is a burden on the economy of our country?

(b) Can you suggest any other method by which we can reduce the expense on elections.

(c) Give any two reasons why present election system is a suitable pattern of conducting election in our country.

| 7 | (a) Discuss the mechanism of monsoons.

or

(b) What are the challenges of the Indian election system? Suggest some ways to handle these challenges. | 5 | Evaluation |

Subject: Computer   **Assignment No. : 5**
Allotment Date: 25 October 2023

S.NO.	QUESTIONS	MARKS	NATURE
1	Choose and write the correct option (MCQ):- (i) Which tag will you use to insert a horizontal line in your web page? (a) \<hr\> (b) \<hn\> \</hn\> (c) \<br\>. (d) \<body\> \</body\> (ii) Which list is also known as ordered list? (a) Bulleted List (b) Numbered List (c) Symbol List (d) Unordered List (iii) HTML is what type of language? (a) Scripting Language (b) Markup Language (c) Programming Language (d) Network Protocol (iv) Which HTML tag produces the biggest heading? (a) \<h7\> (b) \<h9\> (c) \<h1\> (d) \<h4\>	0.5x5=2.5	Information

	(v) How can you make a bulleted list with numbers? (a) <dl> (b) (c) <list> (d)		
2	Write short notes on following- (i) Align attribute of <hn> tag. (ii) <U> and <I> tag. (iii) Empty tags of HTML. (iv) Background attribute of <BODY> tag (v) and tag	0.5x5=2.5	Analytical Skill
3	Fill in the blanks- (i) Tags and texts that are not directly displayed on the page are written in _____ section. (ii) In HTML we use _____ tag to define superscripted text. (iii) In HTML we use _____ tag to get Bold Text. (iv) The bulleted list is also called the ____ list. (v) The _____ attribute used with the body tag is used to set the background colour of the webpage.	0.5x5=2.5	Understanding
4	Create a webpage to display these equations: (a) $E = MC^2$ (b) $H_3PO_4 + Mg(OH)_2 = Mg_3(PO_4)_2 + H_2O$	1x2.5=2.5	Critical Thinking and Problem Solving

ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX
ACADEMIC SESSION 2023-24
WORKSHEET (SELF –ASSESSMENT)

Subject: Art and Work Education   **Assignment No. : 5**

Allotment Date: 25 October 2023

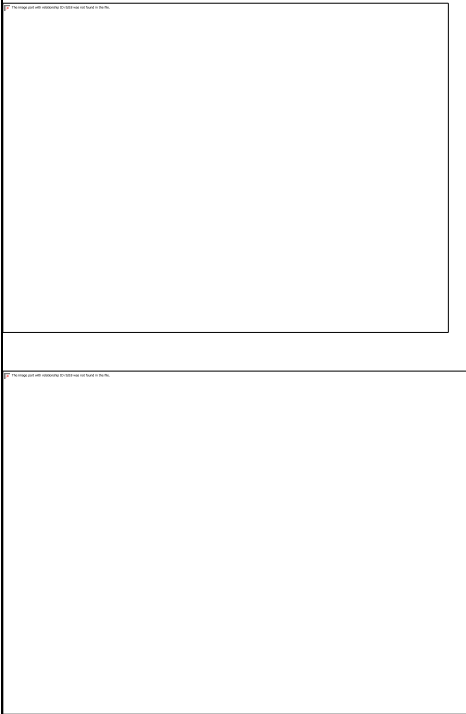| S. NO.	QUESTIONS	MARKS	NATURE
1	What is nature live drawing?	2	Understanding
2	Nature study drawing can be include?	2	Evaluation
3	What is nature study in drawing?	2	Understanding
4	Why nature study is important?	2	Understanding
5	What is nature study project?	2	understanding

ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX
ACADEMIC SESSION 2023-24
WORKSHEET (SELF –ASSESSMENT)

Subject: Music (Vocal & Dance, Instrumental)   **Assignment No. : 5**

Allotment Date: 25 October 2023

S. NO.	QUESTIONS	MARKS	NATURE
1.	katthak isdance of which state? A) Uttar Pradesh B) Lucknow	1	Informative
2.	Howmanytypesofshastriyadancearethere? A) Eight B) Seven	1	Informative
3.	Bharatnatyam is a dance of which state. A) Tamilnadu B)Rajasthan	1	Informative
4.	whichoneoftherepictureisodishidance? 	1	Informative

5	How many beats (matra) in jhap taal? A) 10 B) 6	1	Informative
6.	How many tali in jhap taal? A) 3 B) 4	1	Informative
7.	How many khali in jhap taal ? A) 3 B) 1	1	Informative
8.	How many vibhag in jhap taal? A) 2 B) 4	1	Informative
9,	What is tha bhajan ? A) Devotional song. B) patriotic song.	1	Informative
10.	Which musical instrument is commonly used in traditional devotional bhajans? A) Flute B) Guitar	1	Informative

ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX
ACADEMIC SESSION 2023-24
WORKSHEET (SELF –ASSESSMENT)

Subject: Health and Physical Education   **Assignment No. : 5**

Allotment Date: 25 October 2023

S.NO	MULTIPLE CHOICE QUESTIONS(QUESTION 1 TO 4)	SKILLS	MARKS:- 1X10=10
1.	India played its first one day in? (A) 1970 (B) 1971 (C) 1972 (D) 1974	Problem-solving	1
2.	. Sachin Tendulkar played his One-day debut against (A) India (B) Australia (C) Pakistan (D) Sri Lanka	Initiative	1
3.	who is the fastest Indian bowler to reach 100 wickets in One-day internationals. (A) Kapildev (B) Anil Kumble (C) AjitAgarkar (D) Zaheer Khan	Problem-solving	1
4.	Where is the sports stadium, 'Green Park' located? (a) Kanpur (b) Jamshedpur (c) Cutlack (d) Patiala	Initiative	1
5.	***Fill in the blanks (question 5 to 7)*** _____*was India's first One-day captain.* *(Sunil Gavaskar ,AjitWadekar)*	Thinking	1
6.	International governing body of Cricket is_____? (ICC, CCI)	Thinking	1
7.	_____ has taken the highest number of wickets in Test Cricket. (MuttiahMuralitharan, Shane Warne)	Self-regulation	1
8.	**True & False (question 8 to 10)** In cricket, Golden duck is used to describe the situation when a batsman is "out" on the first ball of the match.	Initiative	1
9.	Full form of ICC is International Cricket Council	Thinking	1
10.	Irani Trophy is related to cricket	Problem-solving	1