ARMY PUBLIC SCHOOL GWALIOR
CLASS - X
ACADEMIC SESSION 2024-25
REVISION WORKSHEET (SELF –ASSESSMENT)

Subject: English   **Assignment No. : 6**
Allotment Date: 30 November 2024

S. NO.	QUESTIONS	MARKS	NATURE
1	Read the passage carefully. Water is one of the most essential resources on Earth, yet it is often taken for granted. Despite its abundance, the reality is that only a small fraction of the world's water is fresh and available for human use. With increasing populations, climate change, and industrial demands, the pressure on our water resources is growing. This makes water conservation not just a collective responsibility but a crucial individual duty. Each person's effort towards conserving water can significantly impact the preservation of this vital resource for future generations. (2) One of the primary reasons individual water conservation efforts are so important is the cumulative effect of small actions which may seem trivial on their own. However, when multiplied by millions of people, these actions can lead to substantial water savings. For example, a single dripping tap can waste over 15 litres of water a day. Imagine the water saved if every household in a city repaired just one leaky faucet. This highlights the power of collective individual actions in reducing water waste. (3) Moreover, personal efforts towards water conservation often lead to greater awareness and education. When individuals take steps to conserve water, they become more conscious of their water usage and the importance of this resource. This awareness can then spread within communities, inspiring others to adopt similar practices. For instance, a family that installs water-saving devices in their home may encourage neighbours and friends to do the same, creating a ripple effect. This grassroots approach to conservation can be particularly effective in areas where larger-scale initiatives may be slow to implement or lacking in support. (4) In addition to daily habits, individuals can also make a difference through more significant lifestyle choices. For instance, opting for drought-resistant plants in gardens and supporting water-efficient agriculture can all contribute to water conservation. Agriculture, especially livestock farming, is one of the largest consumers of water globally. By supporting sustainable farming practices, individuals can indirectly reduce the water footprint of their food. (5) Critics might argue that individual efforts are negligible compared to the large-scale water consumption by industries and agriculture. However, this perspective overlooks the potential for individual actions to drive systemic change. When people collectively make water-conscious choices, they send a powerful	10	Information

message to businesses and policymakers about the importance of conservation.

(6) Each person's commitment to saving water, no matter how small, contributes to a larger culture of sustainability. By making conscious choices and spreading awareness, individuals can help ensure that future generations have access to the clean, fresh water they need to thrive. Water conservation is not just the responsibility of governments and industries; it is a shared duty that begins with each of us.

Answer the following questions, based on the passage above.

I. In paragraph 1, what does the phrase 'each person's effort towards conserving water can significantly impact the preservation of this vital resource' emphasise?

II. Complete the following with the correct option from the two given. Water is often taken for granted, despite its essential nature because . a) it is abundant and always easily accessible, making people less aware of its usage

b) its importance is not always recognised, leading people to overlook its value (paragraph 1)

III. Support the writer's idea that small individual actions towards water conservation are not trivial. (paragraph 2)

IV. Select the option that best reflects the concept of a 'ripple effect' in the context of student life at school.

a) A student's act of volunteering at a local charity leads to the school administration organising a large-scale fundraising event.

b) A student who consistently follows good study practices inspires classmates to improve their own study routines, creating a culture of academic excellence in the class. (paragraph 3)

V. State whether the following statement is True or False. (paragraph 3)

Personal efforts towards water conservation often lead to greater awareness and education.

VI. The writer mentions 'sustainable farming practices' in paragraph 4. Which of the following is a sustainable farming practice?

A. Using chemical fertilizers and pesticides extensively to increase crop yields.
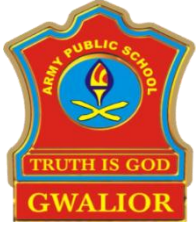
B. Clearing large areas of natural vegetation to expand farmland for organic farming.

C. Implementing crop rotation and using organic compost to maintain soil health.

D. Relying solely on monoculture farming to maximise production efficiency.

VII. List any two points that a powerful message sent to businesses and policy makers about the importance of water

	conservation might include. (paragraph 5) VIII. Fill in the blank with the correct option from those given. (paragraph 6) In the phrase 'culture of sustainability,' the word 'culture' refers to A. A set of beliefs and practices shared by a group B. The artistic and traditional practices specific to a community's heritage. C. The lifestyle habits and choices that are popular among the urbane D. The techniques and methods used in development efforts			
2	Read the following extracts carefully and answer the questions that follow— Pistol in his left hand, pistol in his right, And he held in his teeth a cutlass bright, His beard was black, one leg was wood; It was clear that the pirate meant no good. 1. Who held the pistol? 2. What did the dragon do to him? 3. What does the expression 'the pirate meant no good' convey? 4. Which word means the same as 'thief'?	4	Understand ing	
3	Answer the following questions in 30- 40 words: i) How was the view outside the bus when it went through the canal? ii) What, according to the writer, is the real play' of the otter?	2x3=6	Evaluation	
4	a) Complete the given narrative by filling in the blank with the correct option: - All sorts of cruelties_____upon them but the farmers remained united. (a) Are being inflicted (b) Had inflicted (c) Were inflicted (d) Might be inflicted b) Bread and butter………..what the poor wants. a) Are b) has c) is d) has been	2	Interdiscipli nary	
5	a) Select the correct option to complete the narration of the dialogue between brotherand sister- Ryan: I have invited four of my friends for dinner today.Renee: Then I will invite my friends also. When Ryan told Renee that he_____four of his friends for dinner that day.Renee remarked that she _____also.	2	Analytical skill	

(a) had invited, would invite her friends
(b) has invited, will invite her friends
(c) was inviting, would invite her friends
(d) will be inviting, she will invite my friends

b) Choose the correct answer from the alternatives given below:

He asked me, " What time will the Sun set tomorrow?"

(a) He asked me what time does the sun set the next day.

(b) He asked me what time the sun would set tomorrow.

(c) He asked me what time the sun would set the next day.

(d) He asked me what time would the sun set the next day.

6	Fill in the blank by choosing the correct option to complete the following:
	
	"By the time Sarah arrived, the party………………for an hour."
	
	  a) had been going b) has been going
	  c) was going d) had gone
		1	Problem Solving

7	Answer the following questions in 100-120 words. Why did Kisa Gotami understand the message given by the Buddha only the second time? In what way did the Buddha change her understanding?	5	HOT
8	The chart below shows how, in 2012, consumer spending on different types of food and drink for the household was spread between a range of different food types. Write an analytical paragraph on the given chart in 100-120 words. 	5	Critical Thinking
9	The Computer Hub, Chanakyapuri, New Delhi has advertised a discount of 20% on all types of computers and related hardware. You are Rahul, owner of Softpoint Innovations, 110- 111, Nehru Place, New Delhi. Place an order for suitable items for your company.	5	Communicational Skill

Subject: Hindi   **Assignment No. : 6**
Allotment Date: 30 November 2024

S.NO	QUESTIONS	MARKS	NATURE
01	**निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़िए और पूछे गए प्रश्नों के उत्तर गद्यांश के आधार पर लिखिए-** आज की नारी संचार प्रौद्योगिकी, सेना, वायुसेना, चिकित्सा, इंजीनियरिंग, विज्ञान वगैरह के क्षेत्र में न जाने किन-किन भूमिकाओं में कामयाबी के शिखर छू रही है। ऐसा कोई क्षेत्र नहीं, जहाँ आज की महिलाओं ने अपनी छाप न छोड़ी हो। कह सकते हैं कि आधी नहीं, पूरी दुनिया उनकी है। सारा आकाश हमारा है। पर क्या सही मायनों में इस आज़ादी की आँच हमारे सुदूर गाँवों, कस्बों या दूरदराज के छोटे-छोटे कस्बों में भी उतनी ही धमक से पहुँच पा रही है? क्या एक आज़ाद, स्वायत्त मनुष्य की तरह अपना फैसला खुद लेकर मज़बूती से आगे बढ़ने की हिम्मत है उसमें? बेशक समाज बदल रहा है मगर यथार्थ की परतें कितनी बहुआयामी और जटिल हैं जिन्हें भेदकर अंदरूनी सच्चाई तक पहुँच पाना आसान नहीं। आज के इस रंगीन समय में नई बढ़ती चुनौतियों से टकराती स्त्री की क्रांतिकारी आवाजें हम सबको सुनाई दे रही हैं, मगर यही कमाऊ स्त्री जब समान अधिकार और परिवार में लोकतंत्र की अनिवार्यता पर बहस करती या सही मायनों में लोकतंत्र लाना चाहती है तो वहाँ इसकी राह में तमाम धर्म, भारतीय संस्कृति, समर्पण, सहनशीलता, नैतिकता जैसे सामंती मूल्यों की पगबाधाएँ खड़ी की जाती हैं। नारी की सच्ची स्वाधीनता का अहसास तभी हो पाएगा जब वह आज़ाद मनुष्य की तरह भीतरी आज़ादी को महसूस करने की स्थितियों में होगी। प्रश्नः1 नारी की वास्तविक आज़ादी कब होगी ? प्रश्नः 2.कामयाबी, नैतिकता शब्दों से प्रत्यय अलग करके मूलशब्द भी लिखिए। प्रश्नः 3.कैसे कहा जा सकता है कि आधी दुनिया नहीं बल्कि पूरी दुनिया महिलाओं की है? प्रश्नः 4.दूरदराज़ के क्षेत्रों में लेखक को महिलाओं की आज़ादी पर संदेह क्यों	5	Understanding

02	लगता है ? प्रश्नः 5.नारी जब परिवार में लोकतंत्र लाना चाहती है तो वह कमज़ोर क्यों पड़ जाती है? 'कान्हा डेयरी' अपने उत्पादों की बिक्री बढ़ाने के लिए एक विज्ञापन तैयार करवाना चाहते हैं। इस संबंध में आप उनके लिए विज्ञापन लेखन कीजिए।	3	Communication
03	**आप ग्रीन वेल अपार्टमेंट, द्वारका में रहते हैं। आपके इलाक़े में एक सीवर टूट गया है जिसके कारण नाले का गंदा पानी सड़क पर आ गया है। ज्यादा गंदा फैल रहा है। सीवर की मरम्मत करवाने हेतु निगम अधिकारी को cdaf@eafg.com पर ईमेल लिखिये।**	5	Understanding
04	हिंसा प्रधान फिल्मों के समाज पर पड़ते दुष्प्रभाव पर अपने विचार प्रकट करते हुए 'अमर उजाला ' समाचार -पत्र के संपादक को पत्र लिखिए (शब्द सीमा लगभग 120 शब्द)	5	Communication
05	आप यमुना पब्लिक स्कूल में हिंदी विभाग के सचिव हैं| आपके विद्यालय में आयोजित दोहा गायन प्रतियोगिता के लिए विद्यार्थियों को आमंत्रित करते हुए एक सूचना तैयार कीजिए|	4	Understanding
06	1 निम्नलिखित वाक्यों को ध्यानपूर्वक पढ़िए और रचना के आधार पर उनका भेद लिखिए। 1. जैसे ही महात्मा जी आए वैसे ही भीड़ उनके स्वागत में खड़ी हो गई 2.चुनाव निकट आते ही नेताओं को जनता के दुख दर्द याद आने लगे। 3. वर्षा समाप्त हुई और इंद्रधनुष निकल आया। 4 जो परिश्रमी होते हैं, वे काम से नहीं डरते।	4	Analytical Skills
07	निम्नलिखित में से किसी एक विषय पर 150 शब्दों में अनुच्छेद लिखिए। (क) सत्संगति के लाभ अथवा (ख) शहरों में यातायात समस्या	5	Critical Thinking and Problem Solving
08	**निम्नलिखित प्रश्नों के उत्तर दीजिए|-** 1.डेरा डालने से आप क्या समझते हैं? स्पष्ट कीजिए। 2. लेखक ने जापानियों के दिमाग में 'स्पीड' का इंजन लगने की बात क्यों कही है? 3.'सर हिमालय का हमने न झुकने दिया', इस पंक्ति में हिमालय किस बात का प्रतीक है?	9	Evaluation
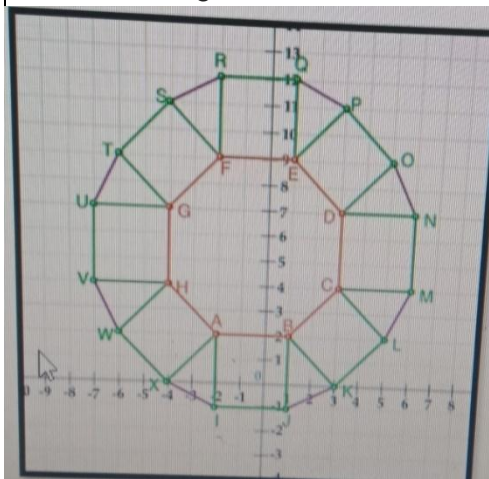
Subject: Mathematics   **Assignment No. : 6**
Allotment Date: 30 November 2024

S. N.	QUESTIONS	MARKS	NATURE
1	Let a and b be two positive integers such that a = p3 q 4 and b = p2 q 3 , where p and q are prime numbers. If HCF(a,b) = $p^m q^n$ and LCM(a,b) = $p^r q^s$, then (m+n)(r+s)= (a) 15 (b) 30 (c) 35 (d) 72	1	Understanding
2	If α and β are the zeros of a polynomial $f(x) = px^2 – 2x + 3p$ and α + β = αβ, then p is (a)-2/3 (b) 2/3 (c) 1/3 (d) -1/3	1	Understanding
3	If the system of equations 3x+y =1 and (2k-1)x +(k-1)y =2k+1 is inconsistent, then k = (a) -1 (b) 0 (c) 1 (d) 2	1	Evaluation
4	If the vertices of a parallelogram PQRS taken in order are P(3,4), Q(-2,3) and R(-3,-2), then the coordinates of its fourth vertex S are (a) (-2,-1) (b) (-2,-3) (c) (2,-1) (d) (1,2)	1	Application
5	If sinθ + cosθ = √2, then tanθ + cot θ = (a) 1 (b) 2 (c) 3 (d) 4	1	Evaluation
6	ABCD is a trapezium with AD ∥ BC and AD = 4cm. If the diagonals AC and BD intersect each other at O such that AO/OC = DO/OB =1/2, then BC = (a) 6cm (b) 7cm (c) 8cm (d) 9cm	1	Analytical Thinking
7	If the difference of Mode and Median of a data is 24, then the difference of median and mean is (a) 8 (b) 12 (c) 24 (d) 36	1	Application
8.	For the following distribution, 	class	0-5	5-10	10-15	15-20	20-25		1	Analytical Thinking

	Freq.	10	15	12	20	9		

the sum of the lower limits of the median and modal class is

(a) 15   (b) 25   (c) 30   (d) 35

9	Two dice are rolled simultaneously. The probability that 6 will come up at least once? (a)1/6 (b) 7/36 (c) 11/36 (d) 13/36	1	Evaluation
10	*Directions:* In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as: (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A). (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A). (C) Assertion (A) is true but reason (R) is false. (d) Assertion (A) is false but reason (R) is true. **Assertion:A** If product of two numbers is 5780 and their HCF is 17, then their LCM is 340 Reason R : HCF is always a factor of LCM**.**	1	Competency based
11	If triangles ABC and DEF are similar and AB=4 cm, DE=6 cm, EF=9 cm and FD=12 cm, the perimeter of triangle ABC is: (a) 22 cm (b) 20 cm (c) 21 cm (d) 18 cm	2	problem solving
12.	Find the value of$\sin^2 60^0$ - 2 tan 45^0 – $\cos^2 30^0$ = ?	2	Analytical Thinking
13	Find the perimeter of a triangle with vertices (0,4) ,(0,0) and (3,0).	2	HOTS
14.	In what ratio is the line segment joining (-2,-3) and (3,7) divided by y-axis.	2	Analytical Thinking Problem
15.	Prove that : $\frac{\sin A - 2\sin 3A}{2\cos 3A - \cos A}$ = tanA	3	Analytical Thinking
16.	Two coins are tossed simultaneously. What is the probability of getting (i) At least one head? (ii) At most one tail? (iii) A head and a tail?	3	Evaluation Problem solving
17.	$\sqrt{\frac{1-sinA}{1+sinA}}$. + $\sqrt{\frac{1+sinA}{1-sinA}}$ =?	3	Application
18.	The length of the minute hand of a clock is 6cm. Find the area swept by it when it moves from 7:05 p.m. to 7:40 p.m.	3	Problem solving

19.	. Prove that a parallelogram circumscribing a circle is a rhombus.	3	Critical thinking and Problem solving
20.	A tiling or tessellation of a flat surface is the covering of a plane using one or more geometric shapes, called tiles, with no overlaps and no gaps. Historically, tessellations were used in ancient Rome and in Islamic art. You may find tessellation patterns on floors, walls, paintings etc. Shown below is a tiled floor in the archaeological Museum of Seville, made using squares, triangles and hexagons. A craftsman thought of making a floor pattern after being inspired by the above design. To ensure accuracy in his work, he made the pattern on the Cartesian plane. He used regular octagons, squares and triangles for his floor tessellation pattern Use the above figure to answer the questions that follow: (i) What is the length of the line segment joining points B and F? (ii) The centre 'Z' of the figure will be the point of intersection of the diagonals of quadrilateral WXOP. Then what are the coordinates of Z? (iii) What are the coordinates of the point on y axis equidistant from A and G? OR What is the area of Trapezium AFGH The class X students school in krishnagar have been allotted a rectangular plot of land for their gardening activity. Saplings of Gulmohar are planted on the boundary at a distance of 1 m from each other. There is triangular grassy lawn in the plot as shown in the figure. The students are to sow seeds of flowering plants on the remaining area of the plot. 1. Taking A as origin, find the coordinates of P and Q 2. Find the distance between P and Q (Using distance formula) 3. Find the perimeter of triangle PQR (OR) Find the nature of the triangle.	1+1+2	Competency based
21.	The median of the following data is 525. Find the values of x and y, if the total frequency is 100	5	HOTS

C.I.	0-100	100-200	200-300	300-400	400-500	500-600	600-700	700-800	800-900	900-1000

| | Freq. | 2 | 5 | x | 12 | 17 | 20 | y | 9 | 0 7 | 4 | | |

Subject: Science   **Assignment No. : 6**
Allotment Date: 30 November 2024

S. NO.	QUESTIONS	MARKS	NATURE
1	Q1. What is a solenoid? Q2. Why covalent compounds have low melting and boiling point. Q3. Define Ecosystem.	1 1 1	Information
2	Q4. DDT that was sprayed in minute amount on food plants was detected in high concentration in man? How did it happen? Explain. Q5. State the right hand thumb rule. Q6. Explain the use of an electric fuse. What type of material is used for fuse wire and why?	3 3 3	Understanding
3	Q7. Distinguish between a solenoid and a bar magnet. Draw the magnetic lines for both Q8. Give reasons for the following: (i) Element carbon forms compounds mainly by covalent bonding. (ii) Diamond has high melting point. (iii) Graphite is a good conductor of electricity	3 3	HOT
4	Q9. In a food chain, if 10,000 joules of energy is available to the producer, how much energy will be available to the secondary consumer to transfer it to the tertiary consumer? Q10. Give three reasons why different electrical appliances in a domestic circuit are connected in parallel.	3 3	Interdisciplinary
5	Q11. Why are detergents better cleansing agents than soaps? Explain. Q12. Unsaturated hydrocarbons contain multiple bonds between the two C-atoms and show addition reactions. Give the test to distinguish ethane from ethene.	3 3	Analytical Skill
6	Q12. Draw a rough sketch of the pattern of field lines due to a (i) current flowing into a circular coil and (ii) solenoid carrying current.. (iii) current flowing through a straight conductor.	5	Critical Thinking and Problem Solving
7	Q13. Describe how ozone layer is formed?	5	Evaluation

Subject: Social Science   Assignment No. : 6
Allotment Date: 30 November 2024

S. NO.	QUESTIONS	MARKS	NATURE
1.	**Consider the statements given below and choose the correct answer** • **Statement I:** From 1780, James Augustus Hickey began to edit the Bengal Gazette, a weekly magazine that described itself as 'a commercial paper open to all, but influenced by none.' • **Statement II:** Hickey also published a lot of gossip about the Company's senior officials in India. a. Statement (i) is correct and (ii) is incorrect. b. Statement (i) is incorrect and (ii) is correct c. Both (i) & (ii) are incorrect d. Both (i) & (ii) are correct	1	Critical Thinking and Problem Solving
2.	**Consider the statements given below and choose the correct answer** • **Statement I** In Globalisation besides the movements of goods, services, investments and technology, there is one more way in which the countries can be connected. • **Statement II** Countries can be connected through the movement of people and between countries. a. Statement i and ii are right. b. Statement i, ii and iii are right. c. Statement iii is right. d. Only statement iv is right	1	Critical Thinking and Problem Solving
3.	**'Tremble, therefore, tyrants of the world! Tremble before the virtual writer!' What did Mercier mean by the above lines?** A. rulers often attacked the writers in order to maintain their power over people B. the spread of print culture would bring down the spirits of intellectual writers C. printing of books had the potential to bring an end to despotism D. cruel leaders needed to reflect upon their actions.	1	Understanding
4.	Satendra is reading an abstract written by **Tarabai Shinde. Which of the following is MOST LIKELY to be the central issue of this text?** A. religious indoctrination by priests	1	Information

		B. miserable lives of farmers in debt C. plight of upper caste Hindu widows D. exploitation of children by factory owners		
5.	**On the basis of following features identify the correct option** I. It connects all major cities by six lane super highways. ll. It reduces time and distance. III. It is maintained by National Highway Authority of India. OPTIONS:- **A.** National Highways. **B.** State Highways **C.** Golden Quadrilateral Super Highways **D.** Grameen Sadak Yojna	1	HOTS
6.	The woodcut painting given below was created during the time when Indians were beginning to accept the idea of women's education in the late 19th century. **Which of the following scenarios was the artist MOST LIKELY trying to portray in this art piece?** A. listening to music is the best way to spend one's free time. B. increasing popularity of western idea of marriage. C. challenging the conventional gender roles. D. pleasure being the ultimate goal of life.	1	Information
7.	Globalisation is the increasing interconnectedness of the world through the flow of goods, services, capital, ideas, and people. **Which of the following examples represents globalisation?** (a) an online advertising portal for goods sold by local	1	Understanding

	vendors run by the Indian government (b) an IKEA store in Bengaluru selling products manufactured in China (c) a traditional Vietnamese market selling handicrafts in Hanoi (d) a sunday market selling groceries produced locally		
8.	**Which of the following is NOT an example of the process of globalisation?** A. Google's headquarters being in California with multiple offices across the world B. Railways being the largest public sector undertaking employer in India C. McDonalds introducing McAloo Tikki specially for the Indian menu D. Spanish family having masala dosas for their weekend breakfast	1	Understanding
9.	**Which of the following policy decisions by the central government could potentially serve as a trade barrier?** (a) strengthening export subsidies (b) simplifying customs procedures (c) implementing higher tariffs on imports (d) promoting fairer trade practices globally	1	Critical Thinking and Problem Solving
10.	**There are two statements given below about the Print Revolution, marked as Assertion (A) and Reason (R). Read the statements and choose the correct option.** **Assertion (A):** The distribution, application, and preservation of knowledge were fundamentally altered with the invention of printing. **Reason (R):** Printing enabled intellectuals to produce, comment on, and evaluate texts which spread as ideas across Europe. (a) A is true but R is false. (b) A is false but R is true. (c) Both A and R are true and R explains A. (d) Both A and R are true but R does not explain A.	1	Understanding
11.	Enumerate the role of BRICS presidency on RUSSIA in context with the Globalization. Also discuss how globalistion is interrelated to BRICS. 	3	Understanding
12.	What were the limitations of written manuscripts in India? Explain.	3	Information
13.	'It is difficult to imagine a world without printed matter'. Justify the statement with suitable arguments.	3	Evaluation
14.	"Information and Communication Technology (ICT) has played a major role in spreading out products and services across countries". Support this statement.	3	Analytical Skill
15.	Examine the impact of print culture on the French Revolution.	5	HOTS
16.	**(CASE BASED QUESTION)** **Read the following extract from the text book and answer the questions given below:** The task of the native newspapers and political associations is identical to the role of the Opposition in the House of	5	Information

Commons in Parliament in England. That is of critically examining government policy to suggest improvements, by removing the parts that will not be to the benefit of the people, and also by ensuring speedy implementation. These associations ought to carefully study the particular issues, gather diverse relevant information on the nation as well as on what are the possible and desirable improvements, and this will surely earn it considerable influence.
Native Opinion, 3 April 1870.

(a) To which British institution is the role of native newspapers compared?
(b) Examine the role of native newspapers as explained in this passage.
(c) What impact did vernacular newspapers have on the Indian people?
(d) Name two newspapers published during this time?

| 17. | **(CASE BASED QUESTION)**
Read the source given below and answer the questions that follow:
For a long time, foreign trade has been the main channel connecting countries. In history, you would have read about the trade routes connecting India and South Asia to markets both in the East and West and the extensive trade that took place along these routes. Also, you would remember that it was trading interests which attracted various trading companies such as the East India Company to India. What then is the basic function of foreign trade? To put it simply, foreign trade creates an opportunity for the producers to reach beyond the domestic markets, i.e., markets of their own countries. Producers can sell their produce not only in markets located within the country, but can also compete in markets located in other countries of the world. Similarly, for the buyers, import of goods produced in another country is one way of expanding the choice of goods beyond what is domestically produced.

I.   **Why had the foreign trade been the main channel connecting countries?**
II.   **What are the basic functions of foreign trade? Explain any two.**
III.   **How is Indian Economy (before 1991) different from Indian Economy (after 1991)?** | 4 | Evaluation |

18.	(MAP BASED QUESTION)	4	Information

On the given political outline map of India some Highway are shown. Identify these and write the names of terminal cities marked A, B, C, D, E, F, G and H.
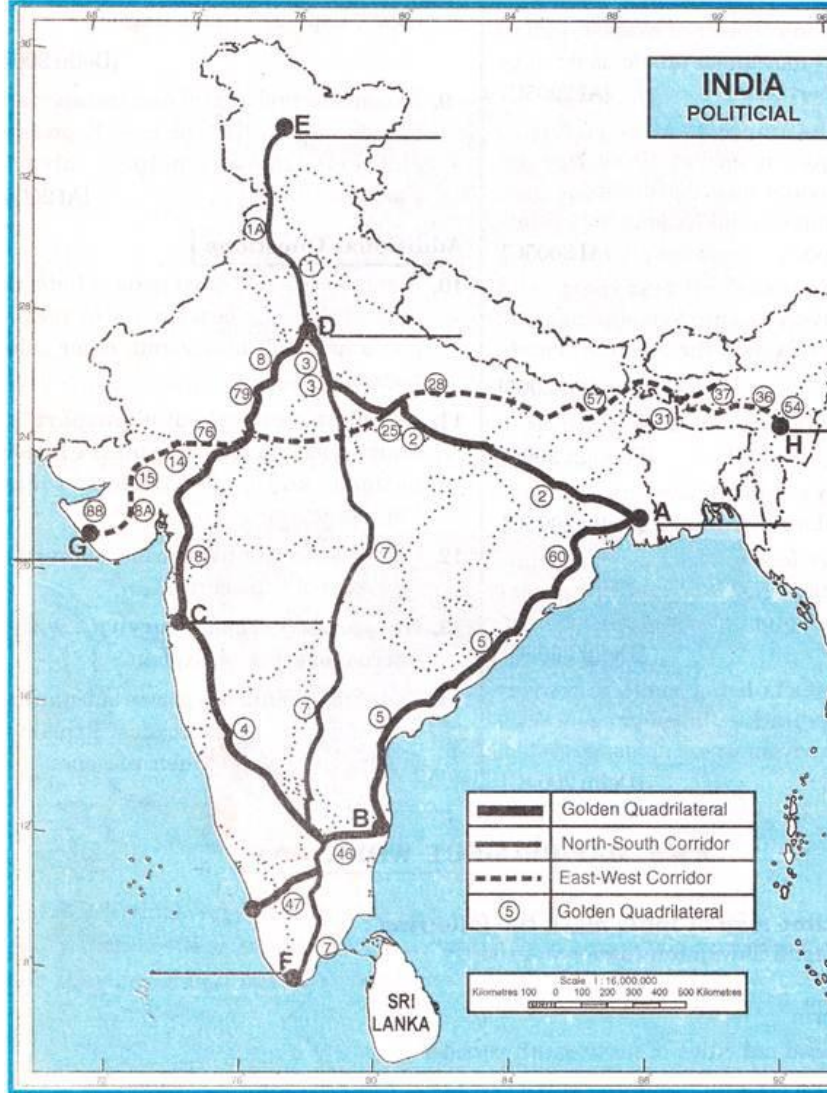
Subject: Physical Activity Trainer   **Assignment No. : 1**
Allotment Date: 30 November 2024

S. No.	QUESTIONS	MARKS	NATURE
1	Things should be kept in mind while assessing the students- * a) Accountability b) Performance - based Assessment c) Evidence - based Assessment d) All of these	1	Analytical Skill
2	Assessment for learning is a) Summative assessment b) Diagnosis assessment c) Formative assessment d) Skill assessment	1	Analytical Skill
3	Things should be kept in mind while assessing the students a) Accountability b) Performance - based Assessment c) Evidence - based Assessment d) All of these	1	Interdisciplinary
4	Below the age of 7 years students which skill related fitness can be assessed a) Action b) Balance c) Coordination d) All of these	1	Understanding
5	Points should be kept in mind while analysing the report a) Events Summary b) Performance analysis c) Incidents reports d) all of these	1	Analytical Skill
6	Assessment is the comparison of actual performance of a skill (a) Summative assessment (b) Diagnosis assessment (c) Formative assessment	1	Understanding

	(d) Skill assessment		
7	How much time should be given to warming up (a) 7-8 minutes (b) 10-20 minutes (c) 5-6 minutes (d) 2-3 minutes	1	Information
8	Risk management checks on the facility and equipment is (a) Facility Assessment (b) Age Appropriate materials (c) a and b (d) None of these	1	Critical Thinking
9	Question and answer sessions by the related to (a) Dealing with customers (b) Parents, teacher and student (c) a and b (d) None of the above	1	Interdisciplinary

10	Fear comes in:
	
	    (a) Mental development
	    (b) Social development
	    (c) Emotional development
	    (d) Physical development
		1	Information

11	Short type question
	
	    (a) Define assessment and evaluation.
	    (b) Describe any two responsibilities of facilitator.
	    (c) What are the advantages of using a report card?
	    (d) Write two Emergency incident management.
	    (e) What do you understand by facilitation?
		5x1 =5	Understanding

12	**Answer the following questions in about 20-30 words.**
	
	    1. What do you understand by assessment.
	
	    2. Explain any five etiquette guidelines established by facilitator.
		2x5= 10	Critical Thinking and Problem Solving

ARMY PUBLIC SCHOOL GWALIOR
CLASS - X
ACADEMIC SESSION 2024-25
REVISION WORKSHEET (SELF –ASSESSMENT)

Subject: Marketing and Sales   **Assignment No. : 1**

Allotment Date: 30 November 2024

S. No.	QUESTIONS	MARKS	NATURE
1	A sales territory is a --------------area consisting of number of prospects and customers (A) geographical (B) political (C) economic	1	Comprehension and Understanding
2	A ---------------keeps salesmanupdated, increases his confidence and helps in developing his capacity to organize his line of activities in sales field. (A) presentation (B) meeting (C) discussion	1	Comprehension and Understanding
3	A customer comes to meet you and enter your office do you, (A) Invite him to sit. (B) Allow him to take seat (C) Say nothing.	1	Comprehension and Understanding
4	Business ethics deals primarily with (A)social responsibility. (B)the pricing of products and services. (C)moral obligation.	1	Comprehension and Understanding
5	Which of these promotional methods involve face to face communication with the customers (A)Public relation (B)Sponsorship (C) Online advertising	1	Comprehension and Understanding
6	Which of these methods is NOT an example of direct marketing (A)Direct mailing (B)Sales promotion (C)Tele marketing	1	Comprehension and Understanding
7	Collecting information about customers is called Customisation. (True/False)	1	Analytical and Strategic Thinking
8	Positioning means creating a unique place for the product in the market. (True/False)	1	Analytical and Strategic Thinking
9	To understand the customer, the salesperson should ask questions.(True/False)	1	Analytical and Strategic Thinking
10	Demonstration is not a part of Presentation.(True/False)	1	Analytical and Strategic

			Thinking
11	Fill in the blanks: a. Undifferentiated strategy of target marketing is also known as ------------. b. Individual Marketing is done to satisfy the needs of ------------ c. Selecting the prospects by the salesperson is also called ---------- d. Business relationship that involve many transactions between buyers /sellers and last for many years are called ----------------------- e. Incase mascots and figures are used to position a product, it is called positioning on the basis of ----------- .	5x1 =5	Communication and Articulation
12	Short Answer Type Questions- 1. Enlist the range of positions a salesman can achieve in his career. 2. Discuss the responsibilities of Regional Sales Manager. 3. Are values closely related to ethics? Explain. 4. List out the various strategies available to a marketer for targeting the customer. Discuss any two of them. 5. Why does a salesperson need a presentation?	5x2= 10	Critical Thinking and Problem Solving

Subject: Multimedia   **Assignment No. : 1**
Allotment Date: 30 November 2024

S. No.	QUESTIONS	MARKS	NATURE
1	What is 'IOR' in Specular Maps?	1	Information
2	What is Seamless Texture?	1	Information
3	What is modelling?	1	Critical Thinking
4	Define Displacement maps.	1	Information
5	What is Bump maps?	1	Information
6	Define: (a) Anisotropic (b) Blinn (c) Phong (d) PhongE (e) Ambient (f) Invert (g) Wrap (h) Spot Light (i) Layer Opacity (j) Reflection Map	10x1= 10	Understanding
7	What is Texture Mapping?	2	Understanding
8	Define the Term UVs Mapping?	2	Understanding
9	What is Object Modeling?	2	Analytical
11	What is Diffuse lighting in light effect in texturing?	2	Understanding
12	What is Rigging and Rendering?	2	Understanding
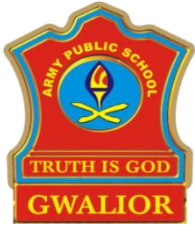
ARMY PUBLIC SCHOOL GWALIOR
CLASS - X
ACADEMIC SESSION 2024-25
REVISION WORKSHEET (SELF –ASSESSMENT)

Subject: Artificial Intelligence   **Assignment No. : 1**
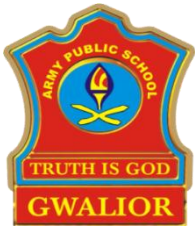
Allotment Date: 30 November 2024

S. No.	QUESTIONS	MARKS	NATURE
1	What was one of the earliest applications of data science? A. Genetics & Genomics B. Internet Search C. Fraud and Risk Detection D. Targeted Advertising	1	Understanding
2	Which industry uses data science to predict flight delays and drive customer loyalty programs? A. Genetics & Genomics B. Internet Search C. Fraud and Risk Detection D. Airline Route Planning	1	Understanding
3	Which search engine(s) make use of data science algorithms to deliver search results? A. Google B. Yahoo C. Bing D. All of the above	1	Understanding
4	What is the purpose of website recommendations? A. To improve user experience B. To promote products C. To suggest similar products D. All of the above	1	Understanding
5	Which field does data science enable an advanced level of treatment personalization through research in? A. Genetics & Genomics B. Internet Search C. Fraud and Risk Detection D. Airline Route Planning	1	Understanding

6	Which industry uses data science to analyze customer profiling and past expenditures? A. Genetics & Genomics B. Fraud and Risk Detection C. Internet Search D. Airline Route Planning	1	Understanding
7	Which industry uses data science algorithms to decide on digital advertising placements? A. Genetics & Genomics B. Internet Search C. Targeted Advertising D. Airline Route Planning	1	Understanding
8	What is the main goal of data science applications in genetics and genomics? A. To understand the impact of DNA on health B. To find individual biological connections C. To analyze reactions to drugs and diseases D. All of the above		Understanding
9	Which companies use data science to improve user experience through product recommendations? A. Amazon, Twitter, Google Play, Netflix, LinkedIn, IMDB B. Yahoo, Bing, Ask, AOL C. All of the above D. None of the above	1	Understanding

10	What is the main purpose of data science?	**1**	Understanding
	A. To analyze data and make machines intelligent		
	B. To collect and store data for future use		
	C. To create new fields of study in science		
	D. To predict future trends based on historical data		
11	In which industry were the earliest applications of data science seen?	1	Understanding
	A. Technology		
	B. Healthcare		
	C. Finance		
	D. Agriculture		
12	How did data science help banking companies in managing risk?	1	Understanding
	A. By collecting customer profiles and past expenditures		
	B. By creating new banking products		
	C. By providing loans to customers with high purchasing power		
	D. By reducing bad debts and losses		
13	What does genetics and genomics research aim to understand?	1	Understanding
	A. The impact of DNA on our health		
	B. The impact of environment on our health		
	C. The relationship between genes and diseases only		
	D. The relationship between genes, diseases, and drug response		
14	How does data science contribute to disease research?	1	Understanding
	A. It provides a deeper understanding of genetic issues in drug response.		
	B. It allows integration of different kinds of data with genomic data.		
	C. It helps in personalizing treatments based on individual genetics.		
	D. All of the above.		
15	Which search engine(s) make use of data science algorithms?	1	Understanding
	A. Google only		
	B. Yahoo, Bing, Ask, AOL, and Google		
	C. Yahoo and Bing only		
	D. AOL, Ask, and Google only		
16	How does targeted advertising differ from traditional advertising?	1	Understanding
	A. It uses data science algorithms to deliver personalized ads.		
	B. It relies on user's past behavior to determine ad placement.		
	C. It has a higher Call-Through Rate (CTR).		

	D. All of the above.		
17	Which companies use website recommendations to improve user experience? A. Amazon, Twitter, and Google Play B. Netflix, LinkedIn, and IMDB C. All of the above D. None of the above	1	Understanding
18	What can airline companies do with the help of data science? A. Predict flight delays B. Determine which class of airplanes to buy C. Decide whether to take a halt during a flight All of the above	1	Understanding
19	From the given options, which statement accurately describes data science? A. Data science is a new field that solely focuses on analyzing data. B. Data science is used only in AI applications. C. Data science helps in making machines intelligent by analyzing data. D. Data science has no major applications in today's world.	1	Understanding
20	How did data science help banking companies reduce losses? A. By collecting customer profiles and past expenditures B. By dividing and analyzing customer data variables C. By pushing banking products based on customer purchasing power D. All of the above	1	Understanding
21	What is the main goal of genetics and genomics research? A. To understand the impact of DNA on our health only B. To acquire reliable personal genome data C. To find individual biological connections between genetics, diseases, and drug response D. All of the Above	1	Understanding
22	What makes targeted advertising more effective than traditional advertising? A. It uses data science algorithms to deliver personalized ads. B. It relies on user's past behavior to determine ad placement. C. It has a higher Call-Through Rate (CTR). **D.** All of the above	1	Understanding
23	Which companies use website recommendations to enhance user experience?	1	Understanding

	A. Amazon B. Netflix C. LinkedIn D. All of the above		
24	How airline companies are not likely to use data science in their operations? A. By predicting flight delays B. By deciding which class of airplanes to buy C. By effectively driving customer loyalty programs **D.** Rescue them from losses bad debts	1	Understanding
25	What is one benefit of using data science in finance? A. It helps in reducing bad debts and losses. B. It allows companies to collect more data for future use. C. It improves customer service in banking industry. **D.** It enables companies to offer heavy discounts to customers	1	Understanding

ARMY PUBLIC SCHOOL GWALIOR
CLASS - X
ACADEMIC SESSION 2024-25
REVISION WORKSHEET (SELF –ASSESSMENT)

Subject: Data Science   **Assignment No. : 1**
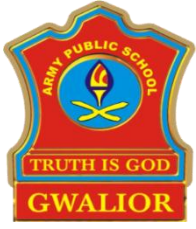
Allotment Date: 30 November 2024

S. No.	QUESTIONS	MARKS	NATURE
1	**What is data merging in data science?** a) Sorting data b) Combining two or more datasets based on a common column or index c) Cleaning data d) Grouping data	1	Understanding
2	**Which of the following is the default type of merge in pandas?** a) Outer join b) Left join c) Right join d) Inner join	1	Understanding
3	**Which type of join returns only rows that have matching values in both tables?** a) Left join b) Right join c) Inner join d) Outer join	1	Understanding
4	**What is a "left join" in database merging?** a) Combines all rows from the right table with matching rows from the left b) Combines all rows from the left table with matching rows from the right c) Combines all rows from both tables, excluding unmatched rows d) Returns all rows from both tables, with non-matching rows filled with NULLs	1	Understanding
5	**Which type of join includes all rows from the left table, even if they don't have a match in the right table?** a) Right join b) Inner join c) Outer join d) Left join	1	Understanding
6	**Which of the following is true about a "full outer join"?** a) It keeps only rows that have matching data in both tables	1	Understanding

	b) It includes all rows from both tables, with unmatched rows having NULL values c) It includes all rows from the left table d) It includes only rows from the right table			
7	**What happens if you merge two datasets with no matching key column values?** a) An error is thrown b) Merged dataset will have NULL values in the rows without matches c) Only matching rows are returned d) All rows are kept from both datasets, even with no matches	1	Understanding
8	**Which of the following is true about an "inner join"?** a) It returns rows that have matching values in both datasets b) It includes all rows from both datasets c) It includes only rows from the left dataset d) It removes columns with NULL values		Understanding
9	**What is a key in the context of merging datasets?** a) A mathematical operation b) A unique identifier that helps combine rows from two tables c) A function used for grouping data d) A column for sorting data	1	Understanding

10	**When would you use a "right join"?** a) When you need to keep all rows from the left dataset b) When you need to keep all rows from the right dataset c) When you want to merge datasets with no common column d) When you only need matching rows	**1**	Understanding
11	**Which of the following types of join ensures that all rows from both tables are included, even if there are no matching rows?** a) Right join b) Outer join c) Left join d) Inner join	1	Understanding
12	**What is the primary difference between an "inner join" and an "outer join"?** a) Inner join keeps only matching rows, while outer join keeps all rows, including non-matching rows b) Outer join only keeps rows from the left dataset c) Inner join keeps all rows from both datasets d) Outer join only keeps rows from the right dataset	1	Understanding
13	**Which of the following is true about merging datasets?** a) Merging always removes duplicate rows b) Merging can combine datasets even if they don't have the same column names c) Merging only works if datasets have identical rows d) Merging is only possible in pandas	1	Understanding
14	**What does a "right outer join" include?** a) Only matching rows b) All rows from the right table, and matching rows from the left table c) All rows from both tables, with non-matching rows filled with NULL values d) Only matching rows from the left table	1	Understanding
15	**Which of the following can be a key for merging two datasets?** a) Any unique identifier like "ID" b) A column with non-unique values c) A mathematical operation d) Only the index of the datasets	1	Understanding

16	When merging two dataframes, what will happen if there is no matching key between the two? a) The merge will fail b) Rows with unmatched keys will be discarded c) Null (NaN) values will be inserted in place of unmatched rows d) Only matching rows will be retained	1	Understanding
17	What is the purpose of a Z-score in statistics? a) To measure the frequency of a data point b) To determine the relative position of a data point within a dataset c) To calculate the average of a dataset d) To measure the central tendency of data	1	Understanding
18	What does a Z-score of 0 mean? a) The data point is at the mean of the dataset b) The data point is one standard deviation above the mean c) The data point is one standard deviation below the mean d) The data point is at the highest value in the dataset	1	Understanding
19	A Z-score of +2 indicates that the data point is: a) 2 standard deviations below the mean b) 2 standard deviations above the mean c) Exactly at the mean d) The median of the dataset	1	Understanding
20	In the Z-score formula, what does μ represent? a) The standard deviation of the dataset b) The number of observations in the dataset c) The mean of the dataset d) The median of the dataset	1	Understanding
21	What is "data transparency" in the context of data science ethics? a) Making all data available to the public without restriction b) Ensuring that the methods, models, and data used are clearly explained and accessible to stakeholders	1	Understanding

	c) Ensuring that only a subset of data is available to researchers d) Limiting access to data for security reasons		
22	**Why is fairness important in data science?** a) To ensure high performance of the model b) To guarantee equal treatment and avoid discrimination c) To reduce the computational cost of the model d) To ensure the model works faster	1	Understanding
23	**What ethical issue arises when data is collected from vulnerable groups, such as children or minorities?** a) Ensuring that data is anonymized b) Obtaining informed consent and protecting privacy c) Increasing the size of the data collection d) Reducing the dataset's complexity	1	Understanding
24	**Which of the following is a common way to address privacy concerns in data science?** a) Data encryption b) Removing irrelevant data c) Using unsupervised learning d) Optimizing algorithm performance	1	Understanding
25	**Which of the following is an example of a data science ethical issue?** a) Developing efficient algorithms b) Maintaining transparency in data usage c) Increasing the size of the dataset d) Reducing computational cost	1	Understanding

Subject: Music (Vocal and Instrumental)   **Assignment No. : 6**
Allotment Date: 30 November 2024

S. NO.	QUESTIONS	MARKS	NATURE
1	What type of song is "Teri hai zameen "? a) Patriotic b) Prayer	1	Informative
2	Teri hai _____Tera asmaan? a) zameen b) Nadhi	1	Informative
3	Tu bada _____meharbaan tu ? a) Meharbaan b) kadradaan	1	Informative
4	Sabhi ka hai tu sabhi _____? a) Tere b) Mere	1	Informative
5	Khuda mere tu _____kar ? a) Baksheesh b) Rehamat	1	Informative
6.	Teri marjee se a malik hum is _____ main aaye hai? a) Duniya b) sansaar	1	Informative
7.	Tu apni _____ hum par rakhna ? a) Nazar b) Nigah	1	Informative
8.	How many part are there in congo? a) 2 b) 3	1	Informative

9,	Four four beat is played with which type of music ? a) western music b) Light music	1	Informative
10.	How many types are there in four four beats? a) A lot of b) Not evan one	1	Informative
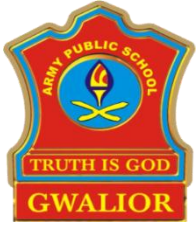
Subject: Health and Physical Education   **Assignment No. : 6**

Allotment Date: 30 November 2024

S.N	QUESTIONS	NATURE	MARKS
1	MCQ A) A race in which the runners jump over barriers while running. I. Relay II. High Jump III. Hurdle IV. Long Jump	Understanding)	4×1=4
	B) How many lanes are on a 400 m. track? i) 4 lanes ii) 5 lanes iii) 6 lanes iv) 8 lanes	Informatory	
	C) During sprinting races, what device do you use to start from? i) Track ii) Spring iii) Starting Block iv) Landing Pad	Analytical	

	D) In which event did Usain Bolt set the current world record in 2009?
	
	    i) 100 m.
	
	    ii) 200 m.
	
	    iii) 400 m.
	
	    iv) 800 m.
		Informaton	

2.	B) Fill In the Blanks: - i. _____ country hosted the 2012 Summer Olympics.	Informatory	3×1=3
	ii. _____ event involves athletes competing in a series of ten events over two days.	Informatory	
	iii. In _____ year did the first modern Olympic Games take place.	Understanding	

3.	True/False
	
	    i. United Kingdom hosted the 2012 Summer Olympics.
	
	        True
	
	        False
		Understanding	3×1=3

	ii. One of the events in the Olympic Games in ancient Greece was discuss.
	
	        True
	
	        False
		Understanding	

	iii. The IAAF World Championships in Athletics have been held since 1983. True False	Understanding	

Subject: Dance **Assignment No. : 6**

Allotment Date: 30 November 2024

S. NO.	QUESTIONS	MARKS	NATURE
1.	**By which name was Kathak dance known in ancient times.** a) Khushilove b) Kavyatmak	1	**Informative**
2.	**In which lay is Kathak dance performed.** a) Vilambit lay, madhyam lay, Druta lay b) Adhik Seema mein rupantaran prastuti mein	1	**Informative**
3.	**Dance in India is divided into_____ parts.** a) Four b) Two	1	**Informative**
4.	**How many classical dances are there in India.** a) Five b) Eight	1	**Informative**
5.	**Are there facial expressions in the poem.** a) Yes b) No	1	**Informative**
6.	**There are three distinct gharana of Kathak dance**. a) Banaras, Lucknow,Jaipur b) Gwalior,Delhi,Mathura	1	**Informative**
7.	**what is kathak dance.** a) Katha kahe so kathak Kahlave b) Bhakti kahe so bhakt kahlave	1	**Informative**
8.	**What is poetry.** a) Kavita b) Natak	1	**Informative**
9.	**Dance usually performed with which vidha or art.** a) Sangeet. b) Katha	1	**Informative**
10.	**Which of these is a poem.** a) dim dim dim damru baje tandav Shankar nache Dhol mridang shankh baje maa Bhagwati Lasya nache . b) tak tak ta drug Dun Dun jhijhi kat thothvng tak thun thun thigadha dig di thi.	1	**Informative**

Subject: Work Education   **Assignment No. : 6**
Allotment Date: 30 November 2024

S. NO.	QUESTIONS	MARKS	NATURE
1	What is Gond Art? A. Gond art is a form of tribal art B. Gond art is a form of contemporary art. C. Gond art is a form of impressionism art. D. Gond art is a form of pop art.	1 mark	Creative Skills
2	Which state is famous for Gond painting? A. Madhya Pradesh B. West Bengal C. Uttarakhand D. Uttar Pradesh	1 mark	Creative Skills
3	What Colours are used in Gond art? A. Bright colours B. Dark colours C. Secondary colours D. Primary colours	1 mark	Creative Skills
4	Which among these is not a type of Gond style? A. Brilliant hues B. Three-dimensional effect C. Colours derived from natural sources D. Torn texture	1 mark	Creative Skills
5	Who invented Gond art? A. Pablo Picasso B. Gustav Klimt C. Johannes Vermeer D. Jangarh Singh Syam	1 mark	Creative Skills

6.	Which material is not required in Still painting? A. Pencil B. Brushes C. Oil Paints/ Watercolours D. Paper (Canvas/Ivory/Normal drawing paper	1 mark	Creative Skills
7	What is unique about Gond art? A. Lines B. Balance C. Rhythm D. Texture	1 mark	Creative Skills
8	Colours are derived from _____ in Gond art. A. Natural sources B. Man-made sources C. Artificial sources D. None of the above	1 mark	Creative Skills
9	Painting is a traditional art of Madhya Pradesh and belongs to the _____ tribe a) Agariya b) Andh c) Gond d) Bhaina	1 mark	Creative Skills
10	 A B C D	1 mark	Creative Skills