



ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)



Subject: English
Allotment Date: 31 December 2025

Assignment No.: 7
Marks: (20+20=40)

S. No	QUESTIONS	MARKS	NATURE
1	Write an informal invitation to your friend Radhika to attend the ring ceremony of your elder sister. (50-60 words)	3	Information
2	Read the extract given below and answer the questions that follow. "When Aunt is dead , her terrified hands will lie Still ringed with ordeals she was mastered by The tigers in the panel that she made Will go on prancing ,proud and unafraid." (i)Identify the poem and the poet. (ii)What will the 'terrified hands reveal'? (iii)What do you know of Aunt Jennifer's married life ?	3	Understanding
3	How did Mr Lamb transform Derry's life?	5	HOT
4	How did the writer indicate that Dr Sadao's father was a very traditional and conventional man?	5	Interdisciplinary
5	How does a thing of beauty provide us shelter and comfort ? Who is responsible for spreading the pall of despondency over our dark spirits ?	5	Analytical Skill
6	You have attended a seminar on how to decrease the burden of studies on school going children .Write a report about it in 100-125 words for your school magazine.You are Ravi/Raveena of Guru Nanak Public School, Kanpur.	5	Critical Thinking and Problem Solving
7	Answer the following questions in 30-40 words each. (i)Why do you think the servants thought Gandhi to be another peasant? (ii) What is suggested by the image 'massive weight of Uncle's wedding band'? (iii)Why did William Douglas choose YMCA pool when he decided to learn to swim? (iv)Why did Derry go back to Mr Lamb's garden even after opposition? (v)How was M Hamel dressed differently that day? Why? (vi)In what sense was the world a big rattrap according to the peddler? (vii)How did Gandhiji teach the people a lesson in self-reliance?	7x2=14	Evaluation



ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
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Subject: Hindi

Allotment Date: 31 December 2025

Assignment No.: 7

Marks: (20+20=40)

S.NO.	QUESTIONS	MARKS	NATURE
1	<p>प्रश्न 1. निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर दिए गए प्रश्नों के उत्तर निर्देशानुसार लिखिए। (10)</p> <p>जब समाचार-पत्रों में सर्वसाधारण के लिए कोई सूचना प्रकाशित की जाती है, तो उसको विज्ञापन कहते हैं। यह सूचना नौकरियों से संबंधित हो सकती है, खाली मकान को किराए पर उठाने के संबंध में हो सकती है या किसी औषधि के प्रचार से संबंधित हो सकती है। कुछ लोग विज्ञापन के आलोचक हैं। वे इसे निरर्थक मानते हैं। उनका मानना है कि यदि कोई वस्तु यथार्थ रूप में अच्छी है, तो वह बिना किसी विज्ञापन के ही लोगों के बीच लोकप्रिय हो जाएगी, जबकि खराब वस्तुएँ विज्ञापन की सहायता पाकर भी भंडाफोड़ होने पर बहुत दिनों तक टिक नहीं पाएँगी, परंतु लोगों की यह सोच गलत है।</p> <p>आज के युग में मानव का प्रचार-प्रसार का दायरा व्यापक हो चुका है। अतः विज्ञापनों का होना अनिवार्य हो जाता है। किसी अच्छी वस्तु की वास्तविकता से परिचय पाना आज के विशाल संसार में विज्ञापन के बिना नितांत असंभव है। विज्ञापन ही वह शक्तिशाली माध्यम है, जो हमारी जरूरत की वस्तुएँ प्रस्तुत करता है, उनकी माँग बढ़ाता है और अंततः हम उन्हें जुटाने चल पड़ते हैं। यदि कोई व्यक्ति या कंपनी किसी वस्तु का निर्माण करती है, उसे उत्पादक कहा जाता है। उन वस्तुओं और सेवाओं को खरीदने वाला उपभोक्ता कहलाता है। विज्ञापन इन दोनों को जोड़ने का कार्य करता है। वह उत्पादक को उपभोक्ता के संपर्क में लाता है तथा माँग और पूर्ति में संतुलन स्थापित करने का प्रयत्न करता है। पुराने जमाने में किसी वस्तु की अच्छाई का विज्ञापन मौखिक तरीके से होता था। काबुल का मेवा, कश्मीर की जरी का काम, दक्षिण भारत के मसाले आदि वस्तुओं की प्रसिद्धि मौखिक रूप से होती थी। उस समय आवश्यकता भी कम होती थी तथा लोग किसी वस्तु के अभाव की तीव्रता का अनुभव नहीं करते थे। आज समय तेजी का है। संचार-क्रांति ने जिंदगी को स्पीड दे दी है। मनुष्य की आवश्यकताएँ बढ़ती जा रही हैं, इसलिए विज्ञापन मानव-जीवन की अनिवार्यता बन गया है।</p> <p>(i) विज्ञापन का मुख्य उद्देश्य क्या है? (1)</p> <p>क) वस्तुओं का निर्माण करना ख) वस्तुओं को खरीदना ग) उत्पादक और उपभोक्ता को जोड़ना घ) वस्तुओं का भंडारण करना</p> <p>(ii) पुराने जमाने में वस्तुओं की अच्छाई का विज्ञापन कैसे होता था? (1)</p> <p>क) समाचार-पत्रों के माध्यम से ख) मौखिक तरीके से ग) टेलीविजन पर</p>	10	Information

	<p>घ) रेडियो पर (iii) निम्नलिखित कथनों पर विचार कीजिए - (1) कथन (I) : विज्ञापन उत्पादक और उपभोक्ता के बीच संबंध स्थापित करता है। कथन (II) : अच्छी वस्तुओंको लोकप्रिय बनानेके लिए विज्ञापन की आवश्यकता नहीं होती। कथन (III) : आधुनिक युग मेंकिसी वस्तुकी वास्तविकता सेपरिचित होनेके लिए विज्ञापन आवश्यक है। कथन (IV) : पुरानेसमय मेंवस्तुओंका विज्ञापन मौखिक रूप सेहोता था। गद्यांश के अनुसार कौन-सा/सेकथन सही हैं? क) केवल कथन (I), (III) और (IV) सही हैं। ख) केवल कथन (II), (III) और (IV) सही हैं। ग) केवल कथन (I) और (II) सही हैं। घ) केवल कथन (II) और (IV) सही हैं। (iv) पुरानेसमय मेंकाबुल के मेवेऔर कश्मीर की जरी का काम कैसेप्रसिद्ध होता था? (1) (v) विज्ञापन क्यों अनिवार्यहो गया है? (2) (vi) विज्ञापन किस प्रकार उत्पादक और उपभोक्ता को जोड़नेका कार्यकरता है? (2) (vii) आज के युग मेंविज्ञापन का क्या महत्व है? (2)</p>		
2	<p>प्रश्न 2. 'बीती ताहि बिसारि दे अथवा । भारतीय संस्कृति : आज की अनिवार्य आवश्यकता है' पर रचनात्मक लेख लिखिए ।</p>	5	Understanding
3	<p>माना आज मशीनी युग में, समय बहुत महँगा हैलेकिन तुम थोड़ा अवकाश निकाली, तुमसेदो बातेंकरनी हैं। उम्र बहुत बाकी है, लेकिन, उम्र बहुत छोटी भी तो है एक स्वप्न मोती का हैतो, एक स्वप्न रोटी भी तो है घुटनों मेंमाथा रखनेसेपोखर पार नहीं होता है: सोया हैविश्वास जगा लो, हम सबको नदिया तरनी है! तुम थोड़ा अवकाश निकाली, तुम सेदो बातेंकरनी हैं! मन छोटा करनेसेमोटा काम नहीं छोटा होता है, नेह-कोष को खुलकर बाँटो, कभी नहीं टोटा होता है, आँसूवाला अर्थन समझे, तो सब ज्ञान व्यर्थजाएँगे: मत सच का आभास दबा लो, शाश्वत आग नहीं मरनी है! तुम थोड़ा अवकाश निकाली, तुमसेदो बातेंकरनी हैं। i. नीचेदिए गए कथनों मेंसेसही विकल्प का चयन कीजिए: (1) कथन: I. झुकना एक स्वाभाविक क्रिया है। II. हम कभी-कभी जानबूझकर चीजेंगिरा देतेहैंक्योंकि हम झुकना भूल जातेहैं। III. लोग केवल ईश्वर केसामनेझुकतेहैं। IV. कुछ लोग इतनेज्यादा झुके रहतेहैंकि वेसीधेखड़ेहोना भूल जातेहैं। विकल्प: क) कथन I, II, और IV सही हैं। ख) केवल कथन III सही है।</p>	5	HOT

	<p>खंड- ख (अभिव्यक्ति और माध्यम पाठ्यपुस्तक के आधार पर) खंड- ग (आरोह भाग - 2 एवं वितान भाग-2 पाठ्यपुस्तकों के आधार पर)</p> <p>ग) केवल कथन I और IV सही हैं। घ) कथन I, II, और III सही हैं।</p> <p>ii. 'घुटनों में माथा रखने से पोखर पार नहीं होता है' पंक्ति से कवि का क्या अभिप्राय है? (1)</p> <p>क) ध्यान और प्रार्थना से सब कुछ संभव है ख) केवल चिंतन और निराशा से समस्याओं का समाधान नहीं होता ग) मेहनत से ही सफलता मिलती है घ) किसी भी कार्य के लिए सहायता की आवश्यकता होती है</p> <p>iii. नीचे दिए गए कॉलम 1 को कॉलम 2 से सुमेलित करें और सही विकल्प का चयन करें: (1)</p> <p>कॉलम 1 कॉलम 2</p> <p>I. किसी के सामने झुकना 1. आदत II. कभी झुकने में नाकामी 2. अफसोस III. जरूरत के समय झुकना 3. इरादा</p> <p>क) I - (3), II - (2), III - (1) ख) I - (1), II - (3), III - (2) ग) I - (2), II - (1), III - (3) घ) I - (1), II - (2), III - (3)</p> <p>iv. मशीनी युग में समय महंगा होने का क्या तात्पर्य है? (1) v. 'तुम थोड़ा अवकाश निकाली, तुमसे दो बातें करनी हैं' इस पंक्ति में कवि किससे और क्यों बात करना चाहते हैं? (2) vi. मन और स्नेह के बारे में कवि क्या परामर्श दे रहा है और क्यों? (2)</p>		
4	<p>प्रश्न -1. किन्हीं दो प्रश्नों के उत्तर दें _</p> <p>i. गाँव वालों ने अपने राज-पहलवान की किस प्रकार सहायता की? क्या गाँव वाले अपने इस प्रयास में सफल हुए?</p> <p>ii. महादेवी वर्मा और भक्तिन के संबंधों की तीन विशिष्टताओं का उल्लेख कीजिए।</p> <p>iii. कालिदास कृत शकुंतला के सौंदर्य को महत्त्व देकर लेखक सौंदर्य को स्त्री के एक मूल्य के रूप में स्थापित करता हुआ प्रतीत होता है। क्या यह सत्य है? यदि हाँ तो क्या ऐसा करना उचित है?</p>	5	Interdisciplinary
5	<p>‘प्रश्न – काले मेघा पानी दे संस्मरण के लेखक ने लोक- प्रचलित विश्वासों को अंधविश्वास कहकर उनके निराकरण पर बल दिया है।- इस कथन की विवेचना कीजिए।</p>	5	Analytical Skill
6	<p>बाबा साहेब भीमराव आंबेडकर पाठ के आधार पर जाति-प्रथा के कारण काम के प्रति भारत में क्या स्थिति है?</p>	5	Critical Thinking and Problem Solving
7	<p>1. बिंब कितने प्रकार के होते हैं? पतंग कविता से श्रव्य बिंब छाँटिए।</p> <p>2. ii. दूरदर्शन के स्टूडियो में अपाहिज से क्या प्रश्न पूछे गए और क्यों?</p> <p>3. iii. बादल राग पूरी कविता में प्रकृति का मानवीकरण किया गया है। आपको प्रकृति का कौन-सा मानवीय रूप पसंद आया और क्यों ?</p>	5	Evaluation
8	<p>विशेष लेखन में डेस्क की क्या भूमिका होती है?</p> <p>ii. विचारपरक लेखन किसे कहते हैं? इसके भेदों का उल्लेख करते हुए अखबार को होने वाले लाभ बताइए। [4]</p>	5	Communication Skills

iii. समाचार-पत्रों में संपादकीय लेखन का क्या महत्त्व है?		
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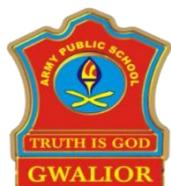
PART I
BASIC (GENERAL QUESTION)

S.NO.	QUESTIONS	MARKS	NATURE
1	The value of the determinant $\begin{vmatrix} 1 & 4 & 3 \\ 9 & -1 & 4 \\ 5 & 0 & 2 \end{vmatrix}$ is: (a) 21 (b) 166 (c) 64 (d) none of these	1	Understanding
2	The order of the differential equation $\frac{d^4y}{dx^4} - \sin\left(\frac{d^2y}{dx^2}\right) = 5$ is: (a) 4 (b) 3 (c) 2 (d) not defined	1	Understanding
3	The interval in which the function f defined by $f(x) = e^x$ is strictly increasing is: (a) $[1, \infty)$ (b) $(-\infty, 0)$ (c) $(-\infty, \infty)$ (d) $(0, \infty)$	1	HOT
4	A card is picked at random from a pack of 52 playing cards. Given that the picked card is a queen, the probability of this card to be a card of spade is: (a) 1/3 (b) 4/13 (c) 1/4 (d) 1/2	1	Understanding
5	Find the value of k, if $\sin^{-1}\left[k \tan\left\{2 \cos^{-1}\frac{\sqrt{3}}{2}\right\}\right] = \frac{\pi}{3}$	2	HOT
6	Show that the function: $f(x) = \begin{cases} \frac{\sin x}{x} + \cos x, & \text{if } x \neq 0 \\ 2, & \text{if } x = 0 \end{cases}$ is continuous at $x = 0$.	2	Understanding
7	The cost (in rupees) of producing x items in factory, each day is given by, $C(x) = 0.00013x^3 + 0.002x^2 + 5x + 2200$	2	HOT

	Find the marginal cost when 150 items are produced.		
8	If vectors $\vec{a} = 2\hat{i} + 2\hat{j} + 3\hat{k}$, $\vec{b} = -\hat{i} + 2\hat{j} + \hat{k}$ and $\vec{c} = 3\hat{i} + \hat{j}$ are such that $\vec{b} + \lambda\vec{c}$ is perpendicular to \vec{a} , then find the value of λ .	2	HOT
9	Find the vector equation of the line passing through the point (2,3,-5) and making equal angles with the coordinates axes.	2	Information
10	Evaluate $\int_0^1 x(1-x)^n dx$ where $n \in N$	3	Understanding
11	If $x = a \sin^3\theta$, $y = b \cos^3\theta$, the find $\frac{d^2y}{dx^2}$ at $\theta = \pi/4$.	3	HOT
PART II			
STANDARD (COMPETENCY BASED QUESTIONS)			
12	If for a square matrix A, $A(\text{adj}A) = \begin{bmatrix} 2025 & 0 & 0 \\ 0 & 2025 & 0 \\ 0 & 0 & 2025 \end{bmatrix}$ then the value of $ A + \text{adj}A $ is equal to: (a) 1 (b) $2025 + 1$ (c) $(2025)^2 + 45$ (d) $2025 + (2025)^2$	1	Information
13	The position vectors of points P and Q are \vec{p} and \vec{q} , respectively. The point R divides line segment PQ in the ratio 3:1 and S is the mid point of line segment PR. The position vector of S is: (a) $\frac{\vec{p} + 3\vec{q}}{4}$ (b) $\frac{\vec{p} + 3\vec{q}}{8}$ (c) $\frac{5\vec{p} + 3\vec{q}}{4}$ (d) $\frac{5\vec{p} + 3\vec{q}}{8}$	1	HOT
14	$\int \frac{1}{x(\log x)^2} dx$ is equal to: (a) $2 \log(\log x) + C$ (b) $-\frac{1}{\log x} + C$ (c) $\frac{(\log x)^3}{3} + C$ (d) $\frac{3}{(\log x)^3} + C$	1	HOT

15	$\int_0^{2\pi} \operatorname{cosec}^7 x \, dx$ equals: (a) 0 (b) 1 (c) 4 (d) 2π	1	HOT
16	<p>Assertion- Reason Type: Direction: The following questions are Assertion-Reason type questions. Each of these questions contains two statements: Assertion (A) and Reason (R). Each of these questions also has four alternative choices, only one of which is the correct answer. You have to select the correct choice.</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 the not correct explanation of A. (c) A is true but R is false. (d) A is false but R is true.</p> <p>Assertion (A): If R is the relation defined in the set $\{1,2,3,4,5,6\}$ and $R = \{(a,b) : b = a+1\}$, then R is reflexive. Reason (R): The relation R in the set $\{1,2,3\}$ given by $R = \{(1,2), (2,1)\}$ is symmetric.</p>	1	Critical Thinking and Problem Solving
17	A kite is flying at a height of 3 m and 5 m of string is out. If the kite is moving away horizontally at the rate of 200 cm / sec. Find the rate at which the string is being released.	3	Critical Thinking and Problem Solving
18	An ant is moving along the vector $\vec{a} = \hat{i} - 2\hat{j} + 3\hat{k}$. Few sugar crystal are kept along the vector $\vec{b} = 3\hat{i} - 2\hat{j} + \hat{k}$ which is inclined at an angle θ with the vector \vec{a} . Then find the angle θ . Also find the scalar projection of \vec{a} on \vec{b} .	3	Critical Thinking and Problem Solving
19	<p>Case Study: In an office three employees Vinay, Sonia and Iqbal process incoming copies of a certain form. Vinay process 50% of the forms, Sonia processes 20% and Iqbal the remaining 30% of the forms. Vinay has an error rate of 0.06, Sonia has an error rate of 0.04 and Iqbal has an error rate of 0.03.</p> <p>Based on the above information, answer the following questions:</p>	4	Critical Thinking and Problem Solving

	<p>(i) Calculate the total probability of committing an error in processing of the form.</p> <p>(ii) The manager of the company want to do a quality check. During inspection he selects a form at random from the days output of processed form .If the form selected at random has an error , find the probability that the form is not processed by Vinay.</p>		
20	<p>Find the image of the point (1,2,1) with respect to the line</p> $\frac{x-3}{1} = \frac{y+1}{2} = \frac{z-1}{3}$ <p>. Also find the equation of the line joining the given point and its image.</p>	5	Critical Thinking and Problem Solving



ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)

Subject: Physics

Allotment Date: 31 December 2025

Assignment No.: 7

Marks: (20+20=40)

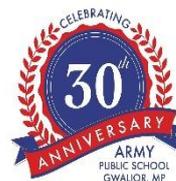
PART I
BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	MCQ BASED QUESTIONS Atom has the size equivalent to the A 1 n m B one micrometer C 1Aungtrom D 1mili meter	1	Information
2	Diffraction of the light indicates A Bauoncing back of the light in the same medium B Bending of the light around the small corners of obstacle C the bending of light towards the normal or away from the normal D all	1	Information
3	VERY SHORT ANSWER QUESTIONS What is The RMS value of the current explain RMS value of the current in terms of the peak value of the current	2	Understanding
4	What is the principle of moving coil gallometer how we can converted into voltmeter and an ammeter	2	Information
5	SHORT ANSWER QUESTIONS Explain the term reflection and reflection of the light with the appropriate diagram in the suitable ray diagram also?	3	Remembering
6	What is the superposition of the waves that derive expression for the young double slit experiment fringe width!	3	Interdisciplinary
7	Explain the Gauss law how can we derive the electric field intensity on the axlal line of the equatorial position of the electric dipole?	3	Understanding
8	What is the wheatstone bridge condition how can you apply the wheatstone with condition on the metre bridge	5	Critical thinking
	PART II STANDARD (COMPETENCY BASED QUESTIONS)		

9	<p>ASSERTION REASON BASED QUESTION</p> <ul style="list-style-type: none"> Assertion the diamagnetic substances have unpaired number of electron? Reason : inside diamagnetic number of vacant orbitals can have 	1	Understanding based question
10	<ul style="list-style-type: none"> Assertion: the light ray can bent towards normal of the corners of aperture? Reason light re behave as a superposition of the ways and the order of the obstacle should be the wavelength of the light 	1	Real life application based on CBQ
11	<ul style="list-style-type: none"> Assertion: when electron jump from hio orbit to lower orbit some energy can radiated Reason the lower most energy orbit have the lowest energy order 	1	Information based question
12	Write down the principle construction and working of the AC generator?	2	Application based CBQ
13	When an inductor and a capacitor C and registers R are connected in series with the external source or battery that calculate the impedance of the circuit and the power consumed in it?	2	Real life relevance based CBQ
14	Explain the single atom atomic spectra given by the Balmer and how can you justify the Lyman series and Paschen series in the atomic structure?	2	Understanding based CBQ
15	Explain the magnification produced by the compound microscope with the appropriate diagram	3	Critical thinking based question
16	Is current is flowing in the circuit having a battery of EMF 10 volt and internal resistance 5 ohm then calculate the external load resistance if the current is point two ampere	3	Evaluation based CBQ
17	Calculate the size of the nucleus when its atomic mass is 27 AMU has define the nuclear fission and nuclear fusion?	5	Analytical skill based CBQ



ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)



Subject: Chemistry
Allotment Date: 31 December 2025

Assignment No.: 7
Marks: (20+20=40)

PART I
BASIC(GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	<p>1. A disaccharide is formed when two monosaccharides are bonded together by a bond.</p> <p>a) glycosidic b) peptide c) ionic d) phosphodiester</p> <p>2. Sucrose is a _____ chemical, and the hydrolysis product combination is _____ in nature.</p> <p>a) dextrorotatory; dextrorotatory b) laevorotatory; laevorotatory c) laevorotatory; dextrorotatory d) dextrorotatory; laevorotatory</p> <p>3. Which of the following statements about maltose is incorrect?</p> <p>a) It consists of two glucopyranose units b) It is a disaccharide c) Glycosidic bond between C1 of one unit and C4 of the other unit d) It is a non-reducing sugar</p> <p>4. Which of the following statements about starch is incorrect?</p> <p>a) It gives blue colour with iodine b) It is a polymer of α-D-glucose c) It is a reducing carbohydrate d) It consists of branched chains</p> <p>5. RNA lacks the nitrogen base of _____</p> <p>a) Thymine b) Cytosine c) Uracil d) Adenine</p>	5	Knowledge
2	<p>Directions: These questions consist of two statements, each printed as Assertion and Reason. While answering these questions, you are required to choose any one of the following four responses.</p> <p>(a) If both Assertion and Reason are correct and the Reason is</p>	2	Understanding

	<p>a correct explanation of the Assertion. (b) If both Assertion and Reason are correct but Reason is not a correct explanation of the Assertion. (c) If the Assertion is correct but Reason is incorrect. (d) If both the Assertion and Reason are incorrect.</p> <p>1. Assertion : D(+)- Glucose is dextrorotatory in nature. Reason : 'D' represents its dextrorotatory nature. Answer</p> <p>2. Assertion : Sucrose is called an invert sugar. Reason : On hydrolysis, sucrose bring the change in the sign of rotation from dextro (+) to laevo(-).</p>		
3	Glucose on reaction with HI gives n-hexane. What does it suggest about the structure of glucose?	2	Understanding
4	(a) Give two differences between globular and fibrous proteins. (b) What change occurs in the nature of egg protein on boiling?.	3	Knowledge
5	What are essential and non-essential amino acids in human food? Give one example of each type.	3	Knowledge
6	Describe what you understand by primary structure and secondary structure of proteins. Also draw structures.	5	Understanding
<p>PART II STANDARD(COMPETENCY BASED QUESTIONS)</p>			
1	<p>1. Lysine is an example of a polar but uncharged amino acid, a) Serine b) Aspartate c) Lysine d) Arginine</p> <p>2. Which of the following chemical classes does not belong to the vast group of carbohydrates? a) Polyhydroxy ketones b) Polyhalo aldehydes c) Polyamino aldehydes d) Polyhydroxy carboxylic acids</p> <p>3. Which of the following statements about metabolism is false? a) It is due to this process that biomolecules do not have a turnover b) It involves the formation of biomolecules c) It involves the breaking down of biomolecules d) It involves various chemical reactions</p> <p>4. How can we make an amine from an amino acid? a) Addition of carbon dioxide b) Removal of ammonia c) Addition of ammonia</p>	1X5=5	Understanding

	<p>d) Removal of carbon dioxide</p> <p>5. When converting a disaccharide to monosaccharides, which bond is hydrolyzed?</p> <p>a) Disulfide bond b) Glycosidic bond c) Phosphodiester bond d) Hydrogen bond</p>		
2	<p>Directions: These questions consist of two statements, each printed as Assertion and Reason. While answering these questions, you are required to choose any one of the following four responses.</p> <p>(a) If both Assertion and Reason are correct and the Reason is a correct explanation of the Assertion. (b) If both Assertion and Reason are correct but Reason is not a correct explanation of the Assertion. (c) If the Assertion is correct but Reason is incorrect. (d) If both the Assertion and Reason are incorrect.</p> <p>1. Assertion : At isoelectric point, the amino group does not migrate under the influence of electric field. Reason : At isoelectric point, amino acid exists as a zwitterion.</p> <p>2. Assertion : Vitamin D cannot be stored in our body Reason : Vitamin D is fat soluble vitamin and is excreted from the body in urine</p>	2	HOT
3	Write the structure of the product obtained when glucose is oxidised with nitric acid.	2	Analytical Skills
4	Enumerate the reactions of glucose which cannot be explained by its open chain structures..	3	Understanding
5	Write down the structures and names of the products formed when D-glucose is treated with (i) Hydroxylamine (ii) Acetic anhydride	3	HOT
6	Write the main structural difference between DNA and RNA. Of the two bases, thymine and uracil, which one is present in DNA?	5	HOT



ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)



Subject: Biology

Assignment No.: 7

Allotment Date: 31 December 2025

Marks: (20+20=40)

PART I
BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	MCQ BASED QUESTIONS The transfer of pollen grains from the anther to the stigma is called: a) Fertilization b) Germination c) Pollination d) Translocation	1	Information
2	In plants, meiosis occurs during the formation of: a) Root tip b) Pollen grains (or Microspores) c) Stem tip d) Zygote	1	Information
3	VERY SHORT ANSWER QUESTIONS Answer the following questions based on the equation given below: Differentiate between geitonogamy and xenogamy.	2	Understanding
4	State the role of histone proteins in packaging DNA	2	Information
5	SHORT ANSWER QUESTIONS Describe the maturation of a microspore into a mature pollen grain, mentioning the cell divisions involved.	3	Remembering
6	List three outbreeding devices in flowering plants and explain how each prevents self-pollination.	3	Interdisciplinary
7	Define and explain the significance of parturition, implantation, and lactation in human reproduction.	3	Understanding
8	Explain the events after fertilization in an angiosperm, describing the fate of the ovary wall, ovule, integuments, and primary endosperm nucleus.	5	Critical thinking
	PART II STANDARD (COMPETENCY BASED QUESTIONS)		
9	ASSERTION REASON BASED QUESTION <ul style="list-style-type: none"> • Assertion: Exine of pollen grain is resistant to high temperature, strong acid, etc. • Reason: Sporopollenin is absent in germ pores 	1	Understanding based question

10	<ul style="list-style-type: none"> • Assertion: Geitonogamy is genetically similar to autogamy. • Reason: Pollen from one flower to another on the same plant 	1	Real life application based on CBQ
11	<ul style="list-style-type: none"> • Assertion: Hydrophily is common in aquatic plants. • Reason: Most aquatic plants use wind/insects. 	1	Information based question
12	What is the structural role of tRNA during translation?	2	Application based CBQ
13	Who proposed the semi-conservative DNA replication model, and how was it proved?	2	Real life relevance based CBQ
14	Mention the dual functions of the AUG codon	2	Understanding based CBQ
15	Explain the Chromosomal Theory of Inheritance and list its key characteristics	3	Critical thinking based question
16	What is a point mutation? Give an example and explain its effect	3	Evaluation based CBQ
17	Explain incomplete dominance with an example (e.g., <i>Mirabilis jalapa</i>). Show a cross and explain the F ₂ phenotypic/genotypic ratios.	5	Analytical skill based CBQ



ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)



Subject: Economics
Allotment Date: 31 December 2025

Assignment No.: 7
Marks: (20+20=40)

PART I

BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	Which among the following is the near money? (a) Bonds (b) Insurance policy (c) Securities (d) All of these	1	Remembering
2	In order to encourage investment in the economy, the Central Bank may _____ (a) Reduce Cash Reserve Ratio (b) Increase Cash Reserve Ratio (c) Sell Government securities in the open market (d) Increase Bank Rate	1	Understanding
3	On which type of borrowing Repo rate is charged by RBI (a) On short term borrowings (b) No long term borrowings (c) Borrowings to maintain reserves (d) Borrowings to purchase assets	1	Information
4	What are the alternative measures of money supply in India? (a) M1 (b) M2 (c) M3 and M4 (d) All of these	1	Evaluation Skill
5	High Powered Money includes: (a) C + DD + OD (b) C + R + OD (c) C + R + TD (d) C + DD + TD	1	Remembering
6	Credit Multiplier is: (a) $1/CRR$ (b) $cash \times 1/CRR$ (c) $Cash \times CRR$ (d) None of these	1	Interdisciplinary

7	<p>Which one is true?</p> <p>(a) Bank rate is a rate at which Central Bank is ready to give credit to commercial banks</p> <p>(b) Bank rate and interest rates are different</p> <p>(c) Bank rate is the discount rate of the Central Bank</p> <p>(d) All the above</p>	1	Understanding
8	<p>The government of an economy increased tax rates and reduced public expenditure during a period of high inflation.</p> <p>Questions:</p> <p>(a) Identify the type of fiscal policy adopted by the government.</p> <p>(b) Explain one objective of adopting this policy.</p> <p>(c) State one possible effect of this policy on aggregate demand.</p>	3	Calculation Skills
9	<p>The revenue deficit of a country is continuously rising over the years.</p> <p>(a) Explain the meaning of revenue deficit.</p> <p>(b) Analyse its impact on capital formation and future economic growth.</p> <p>(c) Suggest one measure to reduce revenue deficit.</p>	4	Understanding/Analyse
10	<p>The Reserve Bank of India (RBI) uses various monetary policy tools to regulate the flow of credit in the economy. Suppose the RBI observes a persistent rise in inflation due to excessive credit creation by commercial banks.</p> <p>On the basis of the above situation, answer the following:</p> <p>(a) Explain the process of credit creation by commercial banks with the help of an example. (3 marks)</p> <p>(b) Identify and explain any two quantitative measures that the RBI can use to control inflation by regulating bank credit. (3 marks)</p>	6	Problem Solving
<p>PART II</p> <p>STANDARD (COMPETENCY BASED QUESTIONS)</p>			
1	<p>Assertion (A)-settlement of liabilities of commercial banks is done by RBI.</p> <p>Reason (R)- RBI holds the accounts of all commercial banks and commercial banks keep funds in it essentially.</p> <p>(a) both (A) & (R) both are true and (R) is correct explanation of (A)</p> <p>(b) both (A) & (R) both are true and (R) is not correct explanation of (A)</p> <p>(c) (A) is true but (R) is false</p> <p>(d) (A) is false but (R) is true</p>	1	HOT

2	<p>Assertion (A)-Governor of RBI gives advises to central government regarding about tax, expenditure related decisions.</p> <p>Reason (R)- it is essential for the government to follow the advises of RBI.</p> <p>(a) both (A) & (R) both are true and (R) is correct explanation of (A)</p> <p>(b) both (A) & (R) both are true and (R) is not correct explanation of (A)</p> <p>(c) (A) is true but (R) is false</p> <p>(d) (A) is false but (R) is true</p>	1	Interdisciplinary
3	<p>Which is not a quantitative method of credit control?</p> <p>(a) Bank Rate</p> <p>(b) Moral Suasion</p> <p>(c) Open Market Operations</p> <p>(d) Change in CRR</p>	1	Critical Thinking and Problem Solving
4	<p>Every bank is required to maintain a fixed percentage of its assets in the form of cash is called:</p> <p>(a) Cash Reserve Ratio</p> <p>(b) Statutory Liquidity Ratio</p> <p>(c) Both (a) and (b)</p> <p>(d) None of the above</p>	1	Critical Thinking
5	<p>The fiscal deficit is the difference between the government's total expenditure and its total receipts excluding _____</p> <p>(a) Interest</p> <p>(b) Taxes</p> <p>(c) Spending</p> <p>(d) Borrowings</p>	1	Analytical Thinking
6	<p>The amount collected by the government as taxes and duties is known as _____</p> <p>(a) Capital receipts</p> <p>(b) Tax revenue receipts</p> <p>(c) Non-tax revenue receipts</p> <p>(d) All of these</p>	1	Logical Reasoning
7	<p>The primary deficit in a government budget will be zero, when _____</p> <p>(a) Revenue deficit is zero</p> <p>(b) Net interest payments are zero</p> <p>(c) Fiscal deficit is zero</p> <p>(d) Fiscal deficit is equal to interest payment</p>	1	Reasoning
8	<p>CASE STUDY -</p> <ul style="list-style-type: none"> Read the following case study paragraph carefully and answer the questions on the basis of the same. <p>India's total Money Supply (M3) stood at Rs 18907383 crore as on April 9th 2020, recording a rise of 11.3% over the same time last year. Currency with the public stood at Rs 2787941 crore, up 16.7% over the year. Demand deposits with banks were up 17% at Rs 1867606 crore. Time deposits with banks were also up 9.6% at Rs 14205545 crore. The bank credit to commercial sector edged up 5.1% on year to Rs 11552069 crores. However,</p>	3	Critical Thinking and Problem solving

	<p>this indicates moderation from 7.2% at the same time last year.</p> <p>1. How does increase in deposits with commercial banks will affect credit creation process ?</p> <p>a) Credit creation process will increase b) Credit creation process will remain unaffected c) Credit creation process will reduce d) None of above</p> <p>2. M3 is consist of:-</p> <p>a) C +OD + Time deposits b) C + DD + OD + time deposits c) M1 + deposits of post office saving bank d) All of above</p> <p>3. What is indicated by increasing deposits?</p> <p>a) People prefer to save more now b) Income level of people are increasing c) People prefer to keep money in the bank accounts after demonetisation d) All of above</p>		
9	<p>A government facing an economic slowdown decides to increase its expenditure on infrastructure while keeping tax rates unchanged.</p> <p>(a) Identify the type of budgetary policy adopted. (b) Explain how this policy affects aggregate demand. (c) State any two possible impacts on employment and income.</p>	4	Critical Thinking skill
10	<p>Statement: The Government Budget is an annual financial statement showing the estimated receipts and expenditures of the government for a financial year. Through its budgetary policy, the government aims to achieve economic stability, reduce income inequalities, promote economic growth, and ensure efficient allocation of resources. Budgetary deficits such as fiscal deficit indicate the government's borrowing requirements and have implications for inflation, public debt, and future growth.</p> <p>Questions: (a) Define <i>government budget</i>. (1 mark) (b) State any two objectives of a government budget. (2 marks) (c) Explain the meaning of <i>fiscal deficit</i>. (2 marks) (d) State one implication of a high fiscal deficit for the economy. (1 mark)</p>	6	Evaluation Skill/Problem Solving

	<p>year 1916, He made His first major public appearance at the opening of the University.</p> <p>(A) Jawahar Lal Nehru (B) Calcutta (C) Banaras Hindu (D) Delhi</p> <p>vi. Which leader among the following demanded separate electorates where he mentioned that separate electorates for Muslims would ensure their electorates?</p> <p>(A) Abul kalam Azad (B) Mohamad Ali Jinnah (C) B. Pocker Bahadur (D) B. N. Rau</p>		
2.	<p style="text-align: center;">PART-B</p> <p><i>Answer in short:</i></p> <p>Why do archaeologists and historians find the Harappan script author enigmatic? Explain reasons.</p>	3	Understanding
3.	<p style="text-align: center;">PART-C</p> <p><i>Answer in detail:</i></p> <p>Describe the elements considered by historians to analyze Mahabharata. State the efforts of V. S. Sukthankar and his team for the preparation of the critical edition of Mahabharata.</p> <p style="text-align: center;">OR</p> <p>Analyze with illustrations why Bhakti and Sufi thinkers adopted a variety of languages in which to express their opinions.</p>	8	Applying
4.	<p style="text-align: center;">PART-D</p> <p>Map Question:</p> <p>On a political map of India, locate and mark the following:</p> <ol style="list-style-type: none"> The place where Gandhiji ended the Salt March. A pre-Indus Valley Civilisation Settlement in Haryana. Tirunelveli 	3	Identifying
	<p>PART II</p> <p>STANDARD (COMPETENCY BASED QUESTIONS)</p>		
1.	<p style="text-align: center;">PART-A</p> <p>Objective Type Questions:</p> <p>i. Assertion (A): One of the strategies to identify social differences during Indus valley civilization is to study artefacts. Reason (R): Archaeologists assume objects were luxuries if they were rare or made from costly, nonlocal materials or with complicated technologies.</p>	1x4=4	Applying Knowledge

	Analyse how changes in coin materials, weight standards, and inscriptions from the 6th century B.C. onwards indicate political transitions and regional diversity.		
3.	The Mahanavami Dibba is the Royal Centre of Vijayanagara has been assigned name on the basis of its form of building as well as functions.	3	Analysing
4.	<p style="text-align: center;">PART-C</p> <p>Answer in detail:</p> <p>Critically examine the role of Zamindars in agrarian conflicts and peasant resistance in the 16th and 17th centuries.</p> <p style="text-align: center;">OR</p> <p>“In your view, how far did the Civil Disobedience Movement transform the nature and direction of India’s freedom struggle? Evaluate its significance not just in terms of political achievements, but also in the way it reshaped society, leadership, and mass participation. Support your argument with reasoned examples.”</p>	8	(HOT) Analytically Evaluating & Synthesizing
5.	<p style="text-align: center;">PART-D</p> <p>Sources Based Question:</p> <p>Read the following extract carefully and answer the questions that follow:</p> <p>“Govind Ballabh Pant argued that in order to become a loyal citizen. People had focusing only on the community and the self. For the success of Democracy one must train himself in the art of self–discipline. In democracies one should care less for himself and more for others. There can not be any divided loyalty. All loyalties must exclusively be centred round the State. If in a democracy, you create rival loyalties, or you create a system in which any individual or group, instead of suppressing his extravagance, cares nought for larger or other interests, then democracy is doomed.”</p> <p>Questions:-</p> <p>i. In your view, why did Govind Vallabh Pant lay greater stress on the art of self-discipline? Substantiate your opinion with arguments.</p> <p>ii. ‘In Democracies one should care less for himself and more for others.’ Give your views on this philosophy</p>	2x1=2	Application and understanding Based



ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)



Subject: Political Science
Allotment Date: 31 December 2025

Assignment No.: 7
Marks: (20+20=40)

PART I
BASIC (GENERAL BASED QUESTION)

S. NO.	QUESTIONS	MARKS	NATURE
1	<p>MCQ BASED QUESTION:</p> <p>(i) How many countries are currently in NATO? (a) 39 (b) 45 (c) 30 (d) 15</p> <p>(ii) Which two countries resisted the Maastricht Treaty? (a) Denmark & Britain (b) France & USA (c) Denmark & Sweden (d) Germany & Spain</p> <p style="text-align: center;">OR</p> <p>(iii) The ASEAN motto is: (a) "One Nation, One Vision" (b) "One Vision, One Identity, One Community" (c) "Asian Unity" (d) "Stronger Together"</p> <p>(iv) What is the primary objective of SAARC? (a) Creating a common South Asian currency (b) Establishing military dominance (c) Expanding economic ties with Europe (d) Promoting regional cooperation</p> <p style="text-align: center;">OR</p> <p>(v) Which international agreement focuses on climate change? (a) Paris Agreement (2015) (b) Kyoto Protocol (1992) (c) NAFTA (d) Montreal Agreement (2005)</p> <p>(vi) Which of the following is NOT a principal organ of the United Nations? (a) General Assembly (b) Security Council</p>	(4x1=4)	Information

	(c) World Trade Organization (WTO) (d) International Court of Justice		
2.	VERY SHORT ANSWER QUESTION Highlights the main political developments in Czechoslovakia of Eastern Europe. OR What are the components of the ASEAN Vision 2020? OR Mention any two objectives of SAARC.	2	Understanding
3	SHORT ANSWER QUESTION Explain any five points of conflict between India and Bangladesh. OR “Democracy in South Asia has expanded the global imagination of democracy”. Do you agree? Justify.	4	HOTS
4	Read the extract carefully and answer the questions that follow: Finally, there has been an attempt in India to develop its economy in a way that the vast mass of citizens are lifted out of poverty and misery and huge economic inequalities are not allowed to exist. The attempt has not quite succeeded; we are still a very poor and unequal country. Yet democratic politics allows spaces for articulating the voice of the poor and the deprived citizens. There is a pressure on the democratically elected governments to combine economic growth with human development. Thus, democracy is not just a political ideal; a democratic government is also a way to provide greater security Questions: (i) How is the Indian economic system tried to develop? (ii) How do the poor and deprived citizens behave in a democratic policy? (iii) What is the duty of an elected government in a democracy?	(1+1+2=4)	Interdisciplinary & Analytical Thinking
5	LONG ANSWER QUESTION Elucidate the term security? Explain any three new sources of threats to security. OR Define the ‘indigenous people’ and highlight threats to their survival.	6	Critical Thinking
	PART II STANDARD (COMPETANCE BASED QUESTION)		
6	ASSERTION REASON BASED QUESTION: Directions (Q. Nos. 1 & 2) In the questions given below, there are two statements marked as Assertion (A) and Reason (R). Read the statements and choose the correct option. (a) Both A and R are true and R is the correct explanation of A	(1X2=2)	CBQ Information Real life application Based on CBQ

	<p>(b) Both A and R are true, but R is not the correct explanation of A</p> <p>(c) A is true, but R is false</p> <p>(d) A is false, but R is true</p> <p>(i) Assertion (A): Globalization reduces state capacity. Reason (R): The market takes over the role of the government in determining economic and social priorities.</p> <p>(ii) Assertion (A): Traditional notions of security focus primarily on external threats. Reason (R): Military threats are considered the most significant danger to a nation's security.</p>		Understanding Based CBQ
7	<p>VERY SHORT ANSWER QUESTION</p> <p>Why are international organisations like the UN required?</p> <p style="text-align: center;">OR</p> <p>How is balance of power a component of traditional security?</p> <p style="text-align: center;">OR</p> <p>Why should the 'environmental concerns' be part of contemporary global politics?</p>	2	Application based CBQ Real life relevance based CBQ Understanding based CBQ
8	<p>SHORT ANSWER QUESTION</p> <p>What steps should be taken to strengthen the ASEAN in the international community?</p> <p style="text-align: center;">OR</p> <p>Explain the steps taken by Governments of India to curb the emission of greenhouse gases.</p> <p>Assess the role of the United Nations as the most important international organisation.</p>	4 4	Critical thinking based Question Evaluation based CBQ
9	<p>Study the cartoon carefully and answer the questions that follow:</p>  <p>Questions:</p> <p>(i) What does this cartoon illustrate?</p> <p>(ii) What is meant by the title 'Yesterday'?</p> <p>(iii) What does the title 'Today' signify?</p>	(1+1+2=4)	Critical and Analytical thinking
10	<p>LONG ANSWER QUESTION</p> <p>Describe the factors that make most of the former Soviet Republics prone to conflicts and threats.</p> <p style="text-align: center;">OR</p>	6	Analytical Skill based CBQ

	Explain the role of emerging alternative centres of power in transforming the different countries into prosperous economies.		
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ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)



Subject: Physical Education
Allotment Date: 31 December 2025

Assignment No.: 7
Marks: (20+20=40)

PART I
BASIC (GENERAL QUESTIONS)

S. No.	QUESTIONS	MARKS	NATURE
1.	Differentiate between Talent Identification and Talent Development (any two points).	3	Difference/comparison-based
2.	What is a micro cycle? Write its duration and purpose.	3	Definition + features
3.	Define endurance and explain any one method to develop it.	3	Explanation
4.	Differentiate between static and dynamic stretching.	3	Comparison-based
5.	What are coordinative abilities? Mention any two examples.	3	Example-based
6.	Explain interval training and state one benefit of using it.	5	Method explanation

PART II
STANDARD (COMPETENCY BASED QUESTIONS)

S. No.	QUESTIONS	MARKS	NATURE
1.	How would you design a 6-week training plan for a beginner athlete using micro, meso, and macro cycles? Explain the rationale behind your plan.	3	Application based
2.	An athlete shows poor speed and moderate endurance. How will you modify their training schedule using suitable training methods to improve both qualities?	3	Problem-solving

3.	A basketball player lacks lower-body flexibility. Which flexibility training methods will you recommend and why?	3	Analytical
4.	Design a circuit training session for 10 mixed-ability school athletes and justify the selection of stations.	3	Creative application
5.	Explain the steps a PE teacher should follow for talent identification in athletics and list the factors to be assessed.	3	Process-based
6.	Recommend strength training methods to develop explosive leg power for a volleyball player and explain your choices.	5	Decision-making



ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)



Subject: Psychology

Assignment No.: 7

Allotment Date: 31 December 2025

Marks: (20+20=40)

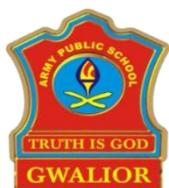
PART I

BASIC(GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	Which of the following is an example of a cultural factor that influences human behavior? a) Genetics b) Family structure c) Brain structure d) Hormones	1	Remembering
2	What is the primary focus of the humanistic approach to understanding human behavior? a) Unconscious thoughts b) Environmental factors c) Self-actualization and personal growth d) Observable behaviour	1	Understanding
3	Which of the following is a characteristic of a healthy personality? a) Rigidity b) Emotional instability c) Self-awareness d) Dependence on others	1	Information
4	Which psychological perspective emphasizes the role of unconscious thoughts and childhood experiences in shaping behavior? a) Behavioral b) Cognitive c) Psychoanalytic d) Humanistic	1	Evaluation Skill
5	What is the term for the process by which we learn new behaviors by observing and imitating others? a) Classical conditioning b) Operant conditioning c) Social learning d) Cognitive development	1	Remembering
6	6. Which part of the brain is primarily responsible for processing emotions? a) Cerebrum b) Cerebellum c) Amygdala d) Hippocampus	1	Interdisciplinary

7	What is the main function of the nervous system? a) To control movement b) To regulate emotions c) To process information d) All of the above	1	Understanding
8	Describe the role of the id, ego, and superego in personality development, according to Freud?	3	Communication Skills
9	“Students who may be academically talented may become unsuccessful in their life.” What do you think are the reasons or not being able to achieve success? Suggest some ways that educators can use to improve the intelligence of such.	4	Understanding/Analyse
10	As a student of class 12, you wish to score very high marks in your board exams. You start planning for the same by attending classes regularly, taking notes, studying extra books etc. Identify and explain the theory of intelligence which includes planning as an Essential	6	Problem Solving
PART II STANDARD (COMPETENCY BASED QUESTIONS)			
1	What is the process by which we attribute causes to our own and others' behavior? a) Attribution b) Perception c) Cognition d) Motivation	1	HOT
2	What is the difference between a primary and a secondary group? Provide examples.	1	Interdisciplinary
3	In the following question a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct alternative among those given below: Assertion (A): Psychology is a science. Reason (R): Psychology uses scientific methods to study behavior and mental processes.. a) Both A and R are true, and R is the correct explanation of A. b) Both A and R are true, but R is not the correct explanation of A. c) A is true, but R is false. d) A is false, but R is true.	1	Critical Thinking and Problem Solving
4	Assertion (A): The brain is the center of all psychological processes. Reason (R): The brain is responsible for controlling all bodily functions. a) Both A and R are true, and R is the correct explanation of A. b) Both A and R are true, but R is not the correct explanation of A.	1	Evaluation

	c) A is true, but R is false. d) A is false, but R is true.		
5	Match the following psychological concepts with their definitions: 1. Nature-nurture debate 2. Cognitive bias 3. Classical conditioning 4. Introspection Definitions: A) A debate about the relative contributions of genetics and environment to human behavior B) A systematic error in thinking and decision-making C) A learning process in which a neutral stimulus is paired with an unconditioned stimulus D) A method of self-observation and reflection	1	Analytical Thinking
6	What is the importance of random sampling in research? a) To ensure the sample is representative of the population b) To reduce bias in the sample c) To increase the sample size d) All of the above	1	Logical Reasoning
7	Assertion (A): The brain is the center of all psychological processes. Reason (R): The brain is responsible for controlling all bodily functions. a) Both A and R are true, and R is the correct explanation of A. b) Both A and R are true, but R is not the correct explanation of A. c) A is true, but R is false. d) A is false, but R is true.	1	Reasoning
8	What is the difference between a primary and a secondary group? Provide examples.	3	Critical Thinking and Problem solving
9	Explain how context-dependent memory can be used to improve exam performance, citing a specific study.	4	Interdisciplinary
10	Evaluate the impact of sleep on memory consolidation for declarative versus procedural information. Use at least two empirical findings to support your evaluation and suggest how a teacher might schedule study sessions accordingly.	6	Evaluation Skill/Problem Solving



ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)



Subject: Painting

Assignment No.: 7

Allotment Date: 31 December 2025

S. NO.	QUESTIONS	MARKS	NATURE
1	<p>A. In which medium the Rajasthani miniature paintings are made?</p> <ol style="list-style-type: none">I. Pastel coloursII. Water coloursIII. Acrylic coloursIV. Oil colours <p>B. Kangra painting is a part of:</p> <ol style="list-style-type: none">I. Pahari schoolII. Mughal schoolIII. Rajasthani schoolIV. Deccan School <p>C. Mention the title of painting done by painter Nihal Chand of the Rajasthani School?</p> <ol style="list-style-type: none">I. RadhaII. Krishna lifting mountainIII. Krishna with GopiesIV. MaruRagini <p>D. On which mythological book, the famous miniature painting Bharat Meets Rama at Chitrakuta is based?</p> <ol style="list-style-type: none">I. RamayanaII. GuruvaniIII. RasikpriyaIV. GeetGovinda <p>E. In which its sub school the famous miniature painting of the Deccan school 'Chand Bibi playing Polo' is made:</p> <ol style="list-style-type: none">I. Bijapur Sub SchoolII. Gol Konda Sub SchoolIII. Ahmadnagar Sub schoolIV. Hyderabad Sub school <p>F. Mention the title of the miniature painting done by the Miskin Painter of the Mughal school:</p> <ol style="list-style-type: none">I. Ragini Pat-hansikaII. Chaghan PlayersIII. Krishna Lifting the Mount GovardhanaIV. Marriage Procession of Dara Shiroh	1*6=6	Information
2	<p>Evaluate the compositional arrangement of any three of the following in short:(30 words)</p> <ol style="list-style-type: none">I. Evaluate the aesthetic grandeur of the Deccan school paintings.	2*3=6	Evaluation

	II. Hazarat Nizamuddin Auliya and Amir Khusro		
3	<p>a. Identify any relevant painting of the Bengal school included in your course of study comprising of the following features and explain them in that painting accordingly.</p> <p>The delineation of attenuated human figures with extra elongated limb and tapering fingers, which reflect the experience of the Rajasthan Pahari and Mughal miniatures. Hence emphasis on European realism is terminated.</p> <p>b. Which of the contemporary Indian Graphical painter you like the most? Write about the style, characteristics, and materials etc. of his/her works.</p>	3*2=6	HOT
4	<p>Write short note on any two of the following:</p> <p>i. Hyderabad school of painting</p> <p>ii. Guler painting</p> <p>iii. Nainsukh</p> <p>iv. Anupam Sud</p>	6*1=6	Understanding
5	<p>a. Write an essay on any one of the following and describe about their characteristics techniques:</p> <p>i. Mughal school</p> <p>ii. Appreciate contemporary Indian paintings included in your course of study.</p>	6*1=6	Application



ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)



Subject: NCC

Allotment Date: 31 December 2025

Assignment No.: 7

Marks: (20+20=40)

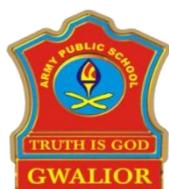
PART I

BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	The back bearing of an object is 250 degree & its magnetic bearing is ____ degree. a) 60 b) 70 c) 80 d) 90	1	Remembering
2	How many degrees can be measured with the help of a Service Protractor? a) 180 b) 240 c) 360 d) 410	1	Understanding
3	The color red on a topographical map indicates: a) Forest b) Roads and settlements c) Water bodies d) Agricultural land	1	Information
4	The role of ____ is to provide fire power in the battle area so that the enemy does not interfere with our operations. (a) Engineers (b) Artillery (c) Armoured (d) Mechanized Infantry	1	Evaluation Skill
5	A _____ is a handheld, portable, two-way radio transceiver. a) Radio b) Walkie – talkie c) Telephone d) Fax	1	Remembering
6	In 'Bhumi Shashtra', the rifle will be kept in such a manner that the magazine will be facing _____. (a) Up (c) Left (b) Right	1	Interdisciplinary

	(d) Any of these		
7	The main purpose of field signals is: a) To decorate uniforms b) Silent communication in battle c) For NCC parades only d) To confuse the enemy	1	Understanding
8	communication can be the expression of ideas. When a candidate goes for the interview, explain in how many styles can he communicate?	3	Communication Skills
9	Explain any four tactical hand signals used in battle craft.	4	Understanding/Analyse
10	What are types of solid waste? Explain about three of the same.	6	Problem Solving
PART II STANDARD (COMPETENCY BASED QUESTIONS)			
1	The function of the extractor in a rifle is to extract the _____. (a) Magazine (c) Empty Case (b) Bullet (d) Round	1	HOT
2	There are three ways of communication; Aggressive, Passive and _____. (a) Verbal (c) Active (b) Non-Verbal (d) Assertive	1	Interdisciplinary
3	Who was the father of Tipu Sultan? (a) Ranadullah Khan (c) Hyder Ali (b) Mir Muin-ud-Din (d) Tipu Mastan Aulia	1	Critical Thinking and Problem Solving
4	Social hierarchy practiced in India for centuries is called _____. (a) Caste System (c) Land System (b) Dowry System (d) Monetary System	1	Evaluation
5	Which of the following is a personal hygiene measure? (a) Hands of cooks medically examined (c) Anti malaria precaution (b) Disposal of waster food (d) Provision of soakage pit	1	Analytical Thinking

6	Ground which gives cover from enemy fire is called: a) Concealment ground b) Dead ground c) Observation post d) Defensive line	1	Logical Reasoning
7	The term dead ground refers to: a) Ground under water b) Ground not visible to enemy c) Ground with no vegetation d) Frozen land	1	Reasoning
8	Define Marking Time, Forward March and Halt in Quick Time.	3	Critical Thinking and Problem solving
9	Write down the Characteristics of 7.62 mm SLR.	4	Interdisciplinary
10	Explain Diamond section formation.	6	Evaluation Skill/Problem Solving



ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)



Subject: Health and Physical Education
Allotment Date: 31 December 2025

Assignment No.: 7
Marks: 10

S.N	QUESTIONS	NATURE	MARKS
1	MCQ A) Which athlete holds the world record in the 100m dash? i) Usain Bolt ii) Carl Lewis iii) Jesse Owens iv) Linford Christie	Understanding)	4×1=4
	B) Which of the following events is a part of the decathlon? i) 100m dash ii) Long jump iii) Shot put iv) All of the above	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) What is the weight of the shot put used in men's track and field? i) 6kg ii) 7.26kg iii) 10kg iv) 12kg	Information	
2.	B) Fill In the Blanks: - i. The sport of track and field includes events such as sprints, distance runs, hurdles, and _____.	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		

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ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)



Subject: Computer Science
Allotment Date: 31 December 2025

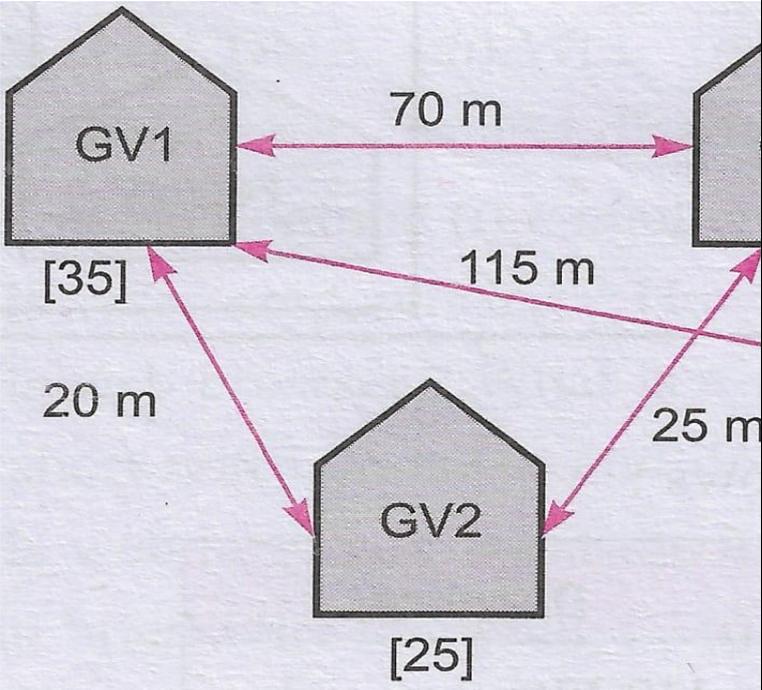
Assignment No.: 7
Marks: (20+20=40)

PART I
BASIC (GENERAL QUESTIONS)

Q No.	Questions Section-A (20Marks)	Marks	Nature
1	A device that forwards data packet from one network to another is called a _____ . a) Bridge b) Router c) Hub d) Gateway	1	Understanding
2	Hub is a _____ . a) Broadcast device b) Unicast device c) Multicast device d) None of the above	1	Understanding
3	Network device that regenerates and retransmits the whole signal is a) Modem b) Hub c) Repeater d) Bridge	1	Understanding
4	Network device which connects networks of similar types (same protocols). a) Hub b) Router c) Bridge d) Gateway	1	Understanding

5	<p>Network device that sends the data over optimizing paths through connected hops is</p> <ul style="list-style-type: none"> a) Hub b) Router c) Bridge d) Gateway 		Remembering
6	<p>Which device filters data packets and only sends to those that require the data?</p> <ul style="list-style-type: none"> a) Router b) Switch c) Hub d) Bridge 	1	Evaluation
7	<p>The protocol suit that is the main communication protocol over the Internet:</p> <ul style="list-style-type: none"> a) HTTP b) FTP c) TCP/IP d) PPP 	1	Evaluation
8	<p>IMAP stands for :</p> <ul style="list-style-type: none"> a) Internet Message Access Protocol b) Internetwork Mapping Access Protocol c) Internet Mapping Add Protocol d) Internetwork Message Added Protocol 	1	Understanding/Analyse
9	<p>IMAP protocol is usually used at :</p> <ul style="list-style-type: none"> a) Outlook program b) Web based email programs c) Databases d) Desktop applications 	1	Problem Solving
10	<p>Write short note on TCP/IP.</p>	2	Remembering

11	What is the use of TELNET ?	3	Understanding
12	Discuss the advantages and disadvantages of E-mail.	3	Remembering
13	What is a firewall ? Briefly explain different firewall techniques.	3	Understanding
PART II STANDARD (COMPETENCY BASED QUESTIONS) (20Marks)			
	<p>Q 14 and 15 are ASSERTION AND REASONING based questions. Mark the correct choice as</p> <p>(a) Both A and R are true and R is the correct explanation for A</p> <p>(b) Both A and R are true and R is not the correct explanation for A</p> <p>(c) A is True but R is False</p> <p>(d) A is false but R is True</p>		
14	<p>Assertion. A modem is a communication device that works on the principle of converting digital data to analog data and vice versa.</p> <p>Reason. Modulation is a process of converting digital data to analog form and Demodulation is a process of converting analog data to digital form.</p>	1	HOT
15	<p>Assertion. A router and a bridge are similar.</p> <p>Reason. A router works like a bridge but can handle different protocols unlike bridge.</p>	1	HOT
16	<p>Tarini Wadhawa is in India and she is interested in communicating with her uncle in Australia. She wants to show one of her own designed gadgets to him and also wants to demonstrate its working without physically going to Australia. Which protocol out of the following will be ideal for the same ?</p> <p>a) POP3</p> <p>b) SMTP</p> <p>c) VoIP</p> <p>d) HTTP</p>	1	Critical Thinking and Problem Solving

18	How are viruses harmful ? How can you prevent them ?	3	Analytical Thinking
19	Compare HTTP and HTTPS.	3	Logical Reasoning
20	What is the difference between a webpage and a website ?	3	Logical Reasoning
21	What is the difference between a web browser and a web server ?	2	Critical Thinking and Problem solving
22	<p>Global Village Enterprises has following four buildings in Hyderabad city :</p>  <p>Computers in each building are networked but buildings are not networked so far. The company has now decided to connect buildings also.</p> <p>(a) Suggest a cable layout for these buildings.</p> <p>(b) In each of the buildings, the management wants that each LAN segment gets a dedicated bandwidth i.e., bandwidth must not be shared. How can this be achieved ?</p> <p>(c) The company also wants to make available shared Internet access for each of the buildings. How can this be achieved ?</p> <p>(d) The company wants to link its head office in GV1 building to its another office in Japan.</p>	5	Critical Thinking and Problem solving

	<ol style="list-style-type: none">1. Which type of transmission medium is appropriate for such a link ?2. What type of network would this connection result into ?		
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ARMY PUBLIC SCHOOL GWALIOR
CLASS - XII
ACADEMIC SESSION 2025-26
WORKSHEET (SELF –ASSESSMENT)



Subject: Information Technology
Allotment Date: 31 December 2025

Assignment No.: 7
Marks: (20+20=40)

S.NO.	QUESTIONS	MARKS	NATURE
1	<p>(i) How many primitive data types are supported by Java? Name any two of them.</p> <p>(ii) Which of the following is an example of assignment operator? a) > b) = c) < d) !=</p> <p>(iii) Find the invalid identifier from the following: a) While b) Score1 c) My_Name d) break</p> <p>(iv) ____ keyword is used to create a new class in Java program.</p> <p>(v) What will be the output of the Java code given below?</p> <pre>int a = 20; int b = 30; a + = b; System.out.println(a);</pre> <p>(iv) _____ is not an aggregate function: (a). Sum() (b) Count() (c) Round() d. Avg()</p> <p>(iv) The number of attributes in a relation is called the _____ of a relation.</p>	1 x 10=10	Information

	<p>(v) In the table teacher, Riya doesn't want repeated values in column marks. Rewrite the correct command.</p> <p style="text-align: center;">SELECT MARKS FROM TEACHER;</p> <p>(vi) _____ loop run at least once.</p> <p>(vii) What is a byte code?</p> <p>(viii) The size of double datatype in java is of _____ bit.</p> <p>(xi) Which component is used to compile, debug and execute java program?</p> <p>(a). JVM (b) JDK (c). IDE (d). JRE</p> <p>x. Complete the sentence:</p> <p>The web-based online applications can be broadly categorized into _____</p>		
<p>2</p>	<p>i. Write down the main steps to sort the data in Calc.</p> <p>ii. Name any two types of Entrepreneurs.</p> <p>iii. Find error and rewrite the correct code</p> <pre> i == 0; while (i < 5) { System.out.println(i) i++; </pre> <p>iv. Explain BETWEEN and LIKE operator of SQL with one example of each.</p>	<p>2 X 4 = 8</p>	<p>Understanding and Problem Solving</p>

<p>3</p>	<p>i. Differentiate between UPDATE and ALTER TABLE commands in SQL with appropriate examples.</p> <p>ii. Complete the code in JAVA using a loop to print "Yes" 5 times:</p> <pre> _____ (int i = 0; i < 5; _____) { _____("Yes"); } </pre> <p>iii.. Rewrite the following program code using switch statement:</p> <pre> if (color == 10) { system.out.println("Red"); } else if (color == 20) { System.out.println ("Orange"); } else if (color == 30) { System.out.println ("Green"); } else { System.out.println ("Invalid"); } </pre> <p>iv. Write a code in java using a for loop to display all even numbers between 1 to 20.</p> <p>v. Convert the following Java code from for loop to while loop without changing the logic.</p> <pre> int X=4,Y=3; int Pow=1; for (int i=1;i<=Y;i++) Pow*=X; System.out.println(Pow); </pre>	<p>2 X 5 = 10</p>	<p>Critical Thinking</p>
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	}																	
4	<p>i. (a) Write Java code to do the following:</p> <p style="padding-left: 40px;">i) Create an array Marks that stores values 78,65,85,91,82</p> <p style="padding-left: 40px;">ii) To print all the values of the array Marks using a loop.</p> <p>(b) . Explain the difference between Entry Control Loop and Exit Control Loop</p> <p>ii. Consider the statement :-</p> <p style="padding-left: 40px;">String name = "Hello World"</p> <p>Write a single line Java code using String methods to perform the following:</p> <p>(a) Convert the name to lowercase.</p> <p>(b) Replace "Hello" by "Welcome" in the given string.</p> <p>(c) Check whether the name contains "Wo" in it or not</p> <p>(d) Add a new string "jackpot" at the end of original string.</p> <p>iii. Write an SQL command to create a table TravelAgency whose description is given below :</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>AgentCode</th> <th>Char(4)</th> <th>Primary Key</th> </tr> </thead> <tbody> <tr> <td>AgentName</td> <td>Varchar(20)</td> <td>Not Null</td> </tr> <tr> <td>Location</td> <td>Varchar(25)</td> <td></td> </tr> <tr> <td>Package</td> <td>Varchar(30)</td> <td></td> </tr> <tr> <td>Charges</td> <td>Decimal</td> <td></td> </tr> </tbody> </table> <p>(b) Write the command to add a new row to a table TravelAgency with the following data :</p> <p style="padding-left: 40px;">("A005","Raman","Grover Travel","Domestic",8000)</p> <p>(c) Write a query to remove the column Package from the table TravelAgency.</p>	AgentCode	Char(4)	Primary Key	AgentName	Varchar(20)	Not Null	Location	Varchar(25)		Package	Varchar(30)		Charges	Decimal		4X3= 12	HOT
AgentCode	Char(4)	Primary Key																
AgentName	Varchar(20)	Not Null																
Location	Varchar(25)																	
Package	Varchar(30)																	
Charges	Decimal																	

