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

Subject: English   **Assignment No.: 6**
Allotment Date: 30 November 2025   **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 sisiter. (50-60 words)	4	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 ? (iv)Why the tigers made by Aunt Jennifer will go on prancing ,proud and unafraid?	4	Understanding
3	How Interpret the symbolism of the garden in the lesson 'On the Face of it'	6	HOT
4	How did the writer indicate that Dr Sadao's father was a very traditional and conventional man?	6	Interdisciplinary
5	STANDARD PART How does a thing of beauty provide us shelter and comfort ? Who is responsible for spreading the pall of despondency over our dark spirits ?	20 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.(any 5) (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?	5x2=10	Evaluation

Subject: Hindi   **Assignment No.: 6**
Allotment Date: 30 November 2025   **Marks: 20+20=40**

S. NO.	QUESTIONS	MARKS	NATURE
1	**प्रश्न** 1. **निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर दिए गए प्रश्नों के उत्तर निर्देशानुसार लिखिए। (10)** भारत एक विशाल देश है, जिसमें भिन्न-भिन्न प्रकार की समस्याएँ व्याप्त हैं, जिनमें से एक है-जनसंख्या वृद्धि। जनसंख्या वृद्धि देश के विकास में बाधा का कार्य करती है, इसलिए हमारी सर्वोच्च प्राथमिकता जनसंख्या वृद्धि को रोकना है। इस क्षेत्र में हमारे सभी प्रयत्न निष्फल रहे हैं। ऐसा क्यों है? यह इसलिए भी हो सकता है, क्योंकि समस्या को देखने का हर एक का अलग दृष्टिकोण है। जनसंख्याशास्त्रियों के लिए यह आँकड़ों का अंबार है। अफसरशाही के लिए यह टारगेट तय करने की कार्यविधि है। राजनीतिज्ञ इसे वोट बैंक की दृष्टि से देखता है। ये सब अपने-अपने ढंग से समस्या को सुलझाने में लगे हैं। अत: पृथक्-पृथक् किसी के हाथ सफलता नहीं लगी। परंतु यह स्पष्ट है कि परिवार के आकार पर आर्थिक विकास और शिक्षा का बहुत प्रभाव पड़ता है। यहाँ आर्थिक विकास का तात्पर्य पाश्चात्य मतानुसार भौतिकवाद नहीं जहाँ बच्चों को बोझ माना जाता है। हमारे लिए तो यह सम्मानपूर्वक जीने के स्तर से संबंधित है। यह मौजूदा संपत्ति के समतामूलक विवरण पर ही निर्भर नहीं है वरन ऐसी शैली अपनाने से संबंधित है, जिसमें अस्सी करोड़ लोगों की ऊर्जा का बेहतर उपयोग हो सके। इसी प्रकार स्त्री-शिक्षा भी है। यह समाज में एक नए प्रकार का चिंतन पैदा करेगी, जिससे सामाजिक और आर्थिक विकास के नए आयाम खुलेंगे और साथ ही बच्चों के विकास का नया रास्ता भी खुलेगा। अत: जनसंख्या की समस्या सामाजिक है। इसे सरकार अकेले नहीं सुलझा सकती। केंद्रीकरण से हटकर इसे ग्राम-ग्राम, व्यक्ति-व्यक्ति तक पहुँचाना होगा। जब तक यह जन-आंदोलन नहीं बन जाता, तब तक सफलता मिलना संदिग्ध है। **(क) हमारी सर्वोच्च प्राथमिकता को रोकना है। (1)** (i) जनसंख्या वृद्धि (ii) प्रदूषण की वृद्धि (iii) कृषि वृद्धि (iv) सैनिक वृद्धि **(ख) 'स्त्र-शिक्षा समाज में एक नए चिंतन को पैदा करेगी' इस कथन से लेखक सिद्ध करना चाहते हैं कि (1)** (i) स्त्री-शिक्षा से लोगों की सोच में सुधार होगा (ii) स्त्री-शिक्षा से लोगों की जीवन-शैली में परिवर्तन होगा (iii) स्त्री-शिक्षा से सामाजिक व आर्थिक विकास के साथ-साथ बच्चों का भी विकास होगा (iv) स्त्री-शिक्षा से सामाजिक समस्या उत्पन्न हो जाएगी **(ग) कथन (A) आर्थिक विकास की तरह शिक्षा भी महत्त्वपूर्ण है।** **कारण (R) शिक्षा परिवार के आकार को निश्चित करती है। कूट**	**10**	Information

	(i) कथन (A) और कारण (R) दोनों सही हैं तथा कारण (R), कथन (A) की सही व्याख्या करता है। (ii) कथन (A) गलत है, किंतु कारण (R) सही है। (iii) कथन (A) तथा कारण (R) दोनों गलत हैं। (iv) कथन (A) और कारण (R) दोनों सही हैं, लेकिन कारण (R), कथन (A) की सही व्याख्या नहीं करता है। (घ) जनसंख्या की समस्या को किस प्रकार की समस्या माना गया है? (1) (ङ) सामाजिक और आर्थिक विकास के नए आयाम किसके माध्यम से खुलेंगे? (2) च) जनसंख्या वृद्धि की समस्या से सफलता मिलना संदिग्ध क्यों है? (2)		
2	**प्रश्न 2.** 'स्वच्छता : आज की अनिवार्य आवश्यकता है' पर रचनात्मक लेख लिखिए।	**5**	Understanding
3	**प्रश्न 2.** निम्नलिखित पद्यांश को ध्यानपूर्वक पढ़कर दिए गए प्रश्नों के उत्तर निर्देशानुसार लिखिए। **(8)** निज रक्षा का अधिकार रहे जन-जन को सबकी सुविधा का भार किंतु शासन को। मैं आर्यों का आदर्श बताने आया, जन-सम्मुख धन का तुच्छ जताने आया। सुख-शांति हेतु मैं क्रांति मचाने आया, विश्वासी का विश्वास बचाने आया, मैं आया उनके हेतु कि जो तापित हैं, जो विवश, विकल, बल-हीन, दीन शापित हैं। हो जाएँ अभय वे जिन्हें कि भय भासित हैं, जो कौणप-कुल से मूक-सदृश शासित हैं। मैं आया, जिसमें बनी रहे मर्यादा, बच जाए प्रबल से, मिटै न जीवन सादा। सुख देने आया, दु:ख झेलने आया। मैं मनुष्यत्व का नाट्य खेलने आया, मैं यहाँ एक अवलंब छोड़ने आया, गढ़ने आया हुँ, नहीं तोड़ने आया। जगदुपवन के झंखाड़ छाँटने आया। मैं राज्य भोगने नहीं, भुगाने आया। हंसों को मुक्ता-मुक्ति चुगाने आया। भव में नव वैभव व्याप्त कराने आया। नर को ईश्वरता प्राप्त कराने आया। संदेश यहाँ मैं नहीं स्वर्ग का लाया, इस भूतल को ही स्वर्ग बनाने आया। अथवा आकर्षण पुण्यभूमि का ऐसा, अवतरित हुआ मैं, आप उच्च फल जैसा। (क) प्रस्तुत पद्यांश के अनुसार शासक का क्या कार्य होता है? **(1)** (i) प्रजा के लिए धन की व्यवस्था करना (ii) प्रजा के लिए सभी प्रकार के सुख-साधनों का प्रबंध करना (iii) प्रजा के लिए मनोरंजन की व्यवस्था करना (iv) प्रजा के लिए धरती को स्वर्ग बनाना (ख) निम्नलिखित कथनों पर विचार कीजिए **(1)** 1. राम इस धरती पर भयाक्रांत लोगों को अभय दान करने आए थे। 2. राम इस धरती को स्वर्ग समान बनाने आए थे।	**5**	HOT

	3. राम इस धरती पर स्वर्ग का संदेश लेकर आए थे। उपर्युक्त कथनों में से कौन-सा/से कथन सही है/हैं? (i) केवल 1 (ii) केवल 3 (iii) 1 और 2 (iv) 2 और 3 ग) सुमेलित कीजिए (1) सूची I. सूची II A. धरती को बनाने की 1. रक्षा करने हेतु B. बलहीन, दीन और शापित की 2. शासन C. देशवासियों की सुख-सुविधा का भार 3. स्वर्ग कूट A B C (i) 2 2 1 (ii) 1 2 3 (iii) 213 (iv) 312 सूची I. सूची II A. धरती को बनाने की 3. स्वर्ग B. बलहीन, दीन और शापित की 1. रक्षा करने हेतु C. देशवासियों की सुख-सुविधा का भार 2. शासन (घ) श्रीराम इस धरती पर किनके लिए आए हैं? (1) (ङ) मनुष्यत्व का नाटक किस प्रकार खेला गया? (2) च) श्रीराम ने कविता में अपने आने का उद्देश्य क्या बताया? (2)		
4	**प्रश्न –1. (क)** तुलसीदास के सवैये के आधार पर प्रतिपादित कीजिए कि उन्हें भी जातीय भेदभाव का दबाव झेलना पड़ा था। **प्रश्न2. (ख)** 'छोटा मेरा खेत' कविता में कवि ने कवि-कर्म और कृषक-कार्य को समान बताया है। कैसे?	5	Interdisciplinary
5	**'प्रश्न –** फिराक की रुबाइयों में घरेलू वातावरण के मोहक चित्र हैं। इस कथन की सोदाहरण पुष्टि कीजिए।	5	Analytical Skill
6	**''शिरीष के फूल'** में लेखक ने संसार में मानवीय मूल्यों को बनाए रखने के लिए गाँधीजी के समान अवधूतों की आवश्यकता पर बल दिया है। क्यों?	5	Critical Thinking and Problem Solving
7	1. चरमोत्कर्ष से क्या अभिप्राय है? कहानी में चरमोत्कर्ष का चित्रण अत्यंत सावधानीपूर्वक क्यों करना चाहिए? 2. विशेष लेखन में डेस्क पर काम करने वाले उपसंपादकों व संवाददाताओं से क्या अपेक्षा की जाती है? 3. स्तंभ लेखन किसे कहते हैं? समझाइए।	5	Evaluation
8	पत्रकारीय लेखन का सबसे जाना-पहचाना रूप समाचार लेखन है। समाचार को कैसे लिखा जाता है?	5	Communication Skills

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PART I
BASIC (GENERAL QUESTION)

S. NO.	QUESTIONS	MARKS	NATURE
1	If $\vec{a} = 3\hat{\imath} + 2\hat{\jmath} + 5\hat{k}$ and $\vec{b} = 6\hat{\imath} - \hat{\jmath} - 5\hat{k}$, then find $(\vec{a} + \vec{b}) \cdot (\vec{a} - \vec{b})$ (a) 24 (b) -24 (c) 18 (d) 10	1	Understanding
2	The value of p for which the vectors $2\hat{\imath} + p\hat{\jmath} + \hat{k}$ and $-4\hat{\imath} - 6\hat{\jmath} + 26\hat{k}$ are perpendicular to each other is: (a) 3 (b) - 3 (c) -17/3 (d) 17/3	1	Understanding
3	A card is picked at random from a pack of 52 playing cards. Given that the picked card is queen, the probability of this card to be a card of spade is: (a) 1/13 (b) 4/13 (c)1/4 (d) 1/2	1	HOT
4	The direction ratios of the line passing through two points (2,-4,5) and (0,1,-1) is: (a) (-2,-6,5) (b) (-2,5,-6) (c) (5,-2,-6) (d) (-6,-2,5)	1	Understanding
5	If vectors $\vec{a} = 2\hat{\imath} + 2\hat{\jmath} + 3\hat{k}$, $\vec{b} = -\hat{\imath} + 2\hat{\jmath} + \hat{k}$ and $\vec{c} = 3\hat{\imath} + \hat{\jmath}$ are such that $\vec{b} + \lambda\vec{c}$ is perpendicular to $\vec{a}$, then find the value of λ.	2	HOT
6	Find the vector equation of the line passing through the point (2,3,- 5) and making equal angles with the coordinates axes.	2	HOT

7	Find $|\vec{a}|$ and $|\vec{b}|$, if $|\vec{a}| = 2\,|\vec{b}|$ and $(\vec{a} + \vec{b}).\,(\vec{a} - \vec{b}).= 12$	2	HOT
8	Find the unit vector perpendicular to each of the vectors $\vec{a} = 4\hat{\imath} + 3\,\hat{\jmath} + \hat{k}$ and $\vec{b} = 2\hat{\imath} - \hat{\jmath} + 2\,\hat{k}$	2	HOT
9	Show that the area of parallelogram having diagonals $3\hat{\imath} + \hat{\jmath} - 2\,\hat{k}$ and $\vec{b} = \hat{\imath} - 3\hat{\jmath} + 4\,\hat{k}$ is $5\sqrt{3}\ units.$	2	Information
10	If $\vec{a} = \hat{\imath} + \hat{\jmath} + 3\,\hat{k}\ and\ \vec{b} = 2\hat{\imath} - \hat{\jmath} + \lambda\,\hat{k},$ then find the value of λ, if the vectors $\vec{a} + \vec{b}$ and $\vec{a} - \vec{b}\ are\ orthogonal.$	3	Understanding
11	Find the shortest distance between the lines given by $$\vec{r} = (\hat{\imath} + 2\,\hat{\jmath} + 3\,\hat{k}\,) + \lambda\,(\hat{\imath} - 3\,\hat{\jmath} + 2\,\hat{k})$$ $$\vec{r} = (4\hat{\imath} + 5\,\hat{\jmath} + 6\,\hat{k}\,) + \mu\,(2\hat{\imath} + 3\,\hat{\jmath} + \hat{k})$$	3	HOT

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PART II
STANDARD (COMPETENCY BASED QUESTIONS)

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12	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	Information
13	If $\vec{a}$ is a non- zero vector, then $(\vec{a}.\hat{\imath})\,\hat{\imath} + (\vec{a}.\hat{\jmath})\,\hat{\jmath} + (\vec{a}.k)\,\hat{k}$ equals: (a) $\vec{a}$ (b) $2\,\vec{a}$ (c) $3\,\vec{a}$ (d) $\vec{0}$	1	HOT
14	Two lines x= ay +b, z= cy +d, and x = a' y + b' , z = c'y +d' are perpendicular to each other , if, (a) $\frac{a}{a'} + \frac{c}{c'} = 1$ (b) $\frac{a}{a'} + \frac{c}{c'} = -1$ (c) aa' + cc'=1 (d) aa' +cc' = -1	1	HOT
15	If $\vec{a}.\vec{b} = \frac{1}{2}\,|\vec{a}.|\,|\vec{b}\,|$, then the angle between $\vec{a}\ and\ \vec{b}$ is (a) 0° (b) 30° (c) 60° (d) 90°	1	HOT

16	**Assertion- Reason Type:**	1	Critical Thinking Skill
	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.		

	(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.		

	Assertion (A):The acute angle between the line $\vec{r} = (\hat{\imath} + \hat{\jmath} + 2\,\hat{k}) + \lambda\,(\hat{\imath} - \hat{\jmath})$ and x-axis is $\pi/4$.		
	Reason (R) : The acute angle θ between the lines $\vec{r} = (x_1\hat{\imath} + y_1\hat{\jmath} + z_1\hat{k}) + \lambda\,(a_1\hat{\imath} + b_1\hat{\jmath} + c_1\hat{k})$		
	$\vec{r} = (x_2\hat{\imath} + y_2\hat{\jmath} + z_2\hat{k}) + \mu\,(a_2\hat{\imath} + b_2\hat{\jmath} + c_2\hat{k})$ is given by $\cos\theta = \dfrac{\lvert a_1 a_2 + b_1 b_2 + c_1 c_2 \rvert}{\sqrt{a_1{}^2 + b_1{}^2 + c_1{}^2}\sqrt{a_2{}^2 + b_2{}^2 + c_2{}^2}}$		
17	An ant is moving along the vector $\vec{a} = \hat{\imath} - 2\,\hat{\jmath} + 3\,\hat{k}$. Few sugar crystal are kept along the vector $\vec{b} = 3\hat{\imath} - 2\,\hat{\jmath} + \hat{k}$ 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	HOT
18	Find the image of the point (1,2,1) with respect to the line $\dfrac{x-3}{1} = \dfrac{y+1}{2} = \dfrac{z-1}{3}$.	3	Critical Thinking and Problem Solving

19	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.
	
	     Based on the above information, answer the following questions:
	
	     (i) Calculate the total probability of committing an error in processing of the form.
	
	     (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
		4	Critical Thinking and Problem Solving

	error , find the probability that the form is not processed by Vinay. .		
20	Find the vector and cartesian equations of the line which is perpendicular to the lines with equations $\frac{x+2}{1} = \frac{y-3}{2} = \frac{z+1}{4}$ and $\frac{x-1}{2} = \frac{y-2}{3} = \frac{z-3}{4}$ and passes through the point (1,1,1). Also, find the angle between the given lines.	**5**	Critical Thinking and Problem Solving

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

Subject: Physics   **Assignment No.: 6**

Allotment Date: 30 November 2025   **Marks: 20+20=40**

PART I
BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	MCQ BASED QUESTIONS The convex mirror from always the image 1 real image 2 virtual image 3 both 4 depend on the position of the object	1	Information
2	Wavefront can be defined as 1 group of waves oscillating in the same phase 2 group of waves oscillating in the different phase 3 A collection of light bandals 4 can't be defined	1	Information
3	VERY SHORT ANSWER QUESTIONS Explain the term diffraction of the light	2	Understanding
4	Explain what are the sources of the cohhorentt and incoherentt sources of the light explain	2	Information
5	SHORT Answer What is i young double slit experiment experimenty explain this experiment and how we can get in constructive and destructive interference of the light	3	Remembering
6	Explain the lens maker formula and explain what happen when the lens is immersed in a liquid of high refractive index of the material?	3	Interdisciplinary
7	Explain all four lastic constant that is young modulus of elasticity - bulk modulus of elasticity -modulus of rigidity and poisons ratio and derrive the expression for this physical quantities in appropriate manner	3	Understanding
8	IIf objective size fourty centimeter put in the front of convex lens of radius of curvature 30 cm at distance 20 CM in front of it find out the nature position in size of the image	5	Critical thinking

	PART II STANDARD (COMPETENCY BASED QUESTIONS)		
9	ASSERTION REASON BASED QUESTION ● Assertion the concave lens always from virtual image Reason : in the laboratory we cannot find the image formed by concave lens directly	1	Understanding based question
10	● Assertion the longitudinal waves cannot be polarized ● Reason the polarization means the preventions of unwanted oscillations in all directions	1	Real life application based on CBQ
11	Assertion the poison's ratio is a smaller for carbon in comparison to the Steel Reason poison ratio is the ratio of the lateral displacement or strain to longitudinal strain	1	Information based question
12	That I will expression for the magnification produced by the compound microscope and explain how we use the smaller focal length objective lens incompetent to the eye lens inside the compound microscope.	2	Application based CBQ
13	IIf weeds 150 Newton on the surface of the Earth then calculate its weight when the height of 400 km from the surface of the Earth is established	2	Real life relevance based CBQ
14	Expression for the magnification produced through compound microscope as well as terrestrial telescope and explain why we prefer reflecting type telescope over reflecting type telescope	2	Understanding based CBQ
15	Answer the following 1. Expression for the refraction through the spherical surfaces through convex surface and through concave surface when the object placed at rare medium	3	Critical thinking based question
16	Explain. The refraction through prism and explain how the windy of deviation depend upon the refractive index of the prism	3	Evaluation based CBQ
17	Briefly describe the following: 1 drive the expression for the ydsc MX player why we use consecutively dark and brite infringes and bright fringes respectively with the conservation of energy	5	Analytical skill based CBQ

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

Subject: Chemistry   **Assignment No.: 6**
Allotment Date: 30 November 2025   **Marks: 20+20=40**

PART I
BASIC(GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	1.The stability of +5 oxidation state decreases and that of +3 state increases down the group in group 15 elements due to a) inert pair effect b) decrease in ionisation enthalpy c) increase in size d) shielding effect 2. Which of the following is most reactive towards nucleophilic substitution reaction? (a) C6H5Cl (b) CH2=CHCl (c) ClCH2CH=CH2 (d) CH3CH=CHCl 3. Which of the following is an example of *vic*-dihalide? (a) Dichloromethane (b) 1,2-dichloroethane (c) Ethylidene chloride (d) Allyl chloride 4. Chlorobenzene is formed by reaction of chlorine with benzene in the presence of AlCl3. Which of the following species attacks the benzene ring in this reaction? (a) Cl+ (b) Cl- (c) AlCl3 (d) [AlCl4]- 5. Molecules whose mirror image is non-superimposable over them are known as chiral. Which of the following molecules is chiral in nature? (a) 2-Bromobutane (b)1-Bromobutane (c) 2-Bromopropane (d) 2-Bromopropan-2-ol	5	Knowledge
2	**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. (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. **Q.1. Assertion :** Aromatic 1°amines can be prepared by Gabriel phthalimide synthesis.	2	Understanding

	Reason : Aryl halides undergo nucleophilic substitution with anion formed by phthalimide**.** **Q.2. Assertion** : Only a small amount of HCl is required in the reduction of nitro compounds with iron scrap and HCl in the presence of steam. Reason : $FeCl_2$ formed gets hydrolysed to release HCl during the reaction.		
3	What is the structure and IUPAC name of crisol and Asprine?	**2**	Understanding
4	Name the main products of a.Wurtz Reaction b Reimer tiemann Reaction . c.Kolbs electrolysis	**3**	Knowledge
5	How will you distinguish between following pairs of organic compounds (Using chemical tests) a.alcohols and Carboxylic Acods b.Amines and Alcohols c.Aldehydes and ketones	**3**	Analytical
6	Write following conversions: (i) nitrobenzene → acetanilide (ii) acetanilide → p-nitroaniline	**5**	Understanding
	PART II **STANDARD(COMPETENCY BASED QUESTIONS)**		
1	1. Acetone and carbon disulphide form binary liquid solution showing positive deviation from Raoult's law. The normal boiling point (Tb) of pure acetone is less than that of pure CS2. Pick out the incorrect statement among the following- (a) Boiling temperature of the mixture is always less than the boiling temperature of acetone (b) Boiling temperature of Azeotropic mixture is always less than the boiling temperature of acetone (c) When a small amount of CS2 (less volatile component) is added to an excess of acetone boiling point of the resulting mixture increases (d) A mixture of CS2 and CH3COCH3 can be completely separated by simple fractional distillation 2. An antifreeze solution is prepared from 222.6 g of ethylene glycol C2H4(OH)2 and 200 g of water. Calculate the molality of the solution. If the density of this solution be 1.072 gmL-1, what will be the molarity of the solution? (a) 7.20 M (b) 12.03 M (c) 9.11 M (d) 6 M	**1X5=5**	Understanding

	3. When mercuric iodide is added to the aqueous solution of potassium iodide, the: (a) Freezing point is raised (b) Freezing point does not change (c) Freezing point is lowered (d) Boiling point does not change 4. The molal elevation constant depends upon (a) nature of solute. (b) nature of the solvent. (c) vapour pressure of the solution. (d) enthalpy change. 5. The osmotic pressure of a solution is directly proportional to (a) the molecular concentration of the solute (b) the absolute temperature at a given concentration (c) the lowering of vapour pressure (d) all the above.		
2	**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. (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. **Q.1. Assertion** : Acetanilide is less basic than aniline. Reason : Acetylation of aniline results in decrease of electron density on nitrogen**.** **Q.2. Assertion :** Nitration of aniline can be conveniently done by protecting the amino group by acetylation. Reason : Acetylation increases the electron-density in the benzene ring.	2	HOT
3	Under what reaction conditions (acidic/basic) the coupling reaction of aryl diazonium chloride with aniline is carried out?	2	Analytical Skills
4	Predict the product of the reaction of aniline with bromine in a nonpolar solvent such as CS_2..	3	Understanding
5	How will you distinguish between following pairs of organic compounds (Using chemical tests) a.Ethanol and Ethanoic Acids b.Aniline and Methyl amine c.Ethanal and Propanon	3	HOT
6	How will you carry out the following conversions? (i) toluene → p-toluidine (ii) p-toluidine diazonium chloride → p-toluic acid .	5	HOT

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

Subject: Biology   **Assignment No.: 6**
Allotment Date: 30 November 2025   **Marks: 20+20=40**

PART I
BASIC (GENERAL QUESTIONS)

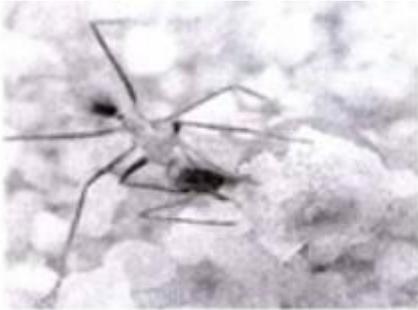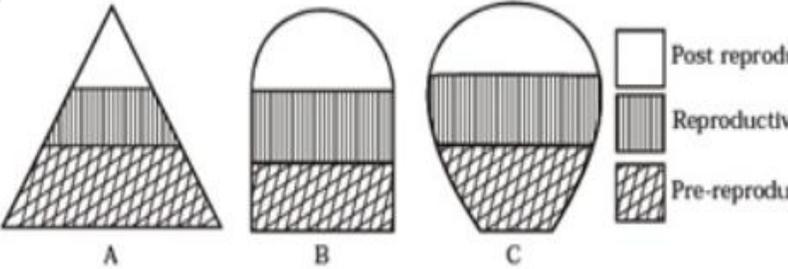| S. NO.	QUESTIONS	MARKS	NATURE
1	MCQ BASED QUESTIONS A population has more young individuals compared to the older individuals. What would be the status of the population after some years? (a) It will decline (b) It will stabilise (c) It will increase (d) It will first decline and then stabilise	1	Information
2	Amensalism is an association between two species where (a) One species is harmed and other is benefitted (b) One species is harmed and other is unaffected (c) One species is benefitted and other is unaffected (d) Both the species are harmed.	1	Information
3	VERY SHORT ANSWER QUESTIONS Higher or raised altitude areas have blazing sunlight and lower temperatures as opposed to the plains. Why?	2	Understanding
4	Why do plants in arid regions have sunken stomata?	2	Information
5	SHORT ANSWER QUESTIONS Why coral reefs are found on the eastern coast of India and Tamil Nadu and not found in Andra Pradesh and West Bengal?	3	Remembering
6	Name the kind of interaction built by a termite feeding on wood and the other is a protozoan Trichonympha residing in the gut of the termite.	3	Interdisciplinary
7	Answer the following based on the following figures A, B, C, D. (i) Which figure displays mutualism? (ii) Name the interaction shown in figure D. (iii) What is the association and entity in figure C	3	Understanding

(iv) State the role of the insect in B?

Fig. (A)

Fig. (B)

Fig. (C)

Fig. (D)

8	Observe the age pyramids of different populations given below and write about the status of the populations.	5	Critical thinking
	PART II STANDARD (COMPETENCY BASED QUESTIONS)		
9	ASSERTION REASON BASED QUESTION • Assertion (A): The pyramid of energy can never be inverted. • Reason (R): When energy flows from one trophic level to the next, some energy is always lost as heat.	1	Understanding based question
10	• Assertion (A): A high density of an elephant population in an area can result in intra-specific competition. • Reason (R): A high population density leads to limited resources, causing competition among individuals of the same species.	1	Real life application based on CBQ
11	• Assertion (A): Humus is organic in nature. • Reason (R): Steps occurring before humification ensure the removal of most inorganic substances from the detritus.	1	Information based question
12	How does a detritivore differ from a decomposer? Explain with an example of each	2	Application based CBQ
13	Why are green algae not likely to be found in the deepest strata of the ocean?	2	Real life relevance based CBQ
14	How does the dead organic matter get decomposed in nature?	2	Understanding based CBQ
15	Differentiate between humification and mineralization.	3	Critical thinking based question
16	Why is the rate of decomposition affected by abiotic factors such as pH of the soil, availability of oxygen, temperature etc?	3	Evaluation based CBQ
17	Explain the three ecological pyramids. What data is propagated by each pyramid in association with function, structure and energy in the ecosystem?	5	Analytical skill based CBQ

Subject: Accountancy   **Assignment No.: 6**
Allotment Date: 30 November 2025   **Marks: 20+20=40**

PART I
BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	K.C. Ltd. took over office furniture of Rs. 90,000, office equipment of Rs. 1,80,000 from J.C. Ltd. and its liabilities of Rs. 20,000 for a purchase consideration of Rs. 3,60,000. The payment to J.C. Ltd. was made by issue of 9% debentures of Rs. 50 each at a discount of 10%. The amount to be debited to 'Discount on issue of Debentures Account would be? (a) Rs. 36,000 (b) Rs. 40,000 (c) Rs. 27,000 (d) Rs. 90,000	1	Concept knowledge
2	Alfa Ltd. invited applications for 50,000 equity shares of Rs. 10 each at a premium of 30%. The whole amount was payable on application. Applications were received for 2,50,000 shares. The company decided to allot the shares on a pro-rata basis to all the applicants. The amount refunded by the company was: (A) Rs. 32,50,000 (B) Rs. 15,60,000 (C) Rs. 39,00,000 (D) Rs. 26,00,000	1	Computation and concept knowledge
3	As per Companies Act 2013, Securities Premium Balance can be utilised for which of the following purpose? (A) Issuing bonus to existing shareholders to convert partly paid up into fully paid-up bonus shares. (B) Providing for Premium payable on Redemption of Debentures. (C) Writing off all Capitalised Expenditures (D) Buy Back of Debentures	1	Concept knowledge
4	Alexa Ltd. purchased building from Siri Ltd for ₹8,00,000. The consideration was paid by issue of 6%debentures of ₹100 each at a discount of 20%. The 6% Debentures account is credited with: a) ₹10,40,000 b) ₹10,00,000 c) ₹9,60,000 d) ₹6,40,000	1	Knowledge

5	Which of the following statements is incorrect about debentures? a) Interest on debentures is an appropriation of profits. b) Debenture holders are the creditors of a company. c) Debentures can be issued to vendors at discount. d) Interest is not paid on Debentures issued as Collateral Security.	**1**	Understanding
6	If 10,000 shares of ₹10 each were forfeited for non-payment of final call money of ₹3 per share and only 7,000 of these shares were re-issued @₹ 11 per share as fully paid up, then what is the minimum amount that company must collect at the time of re-issue of the remaining 3,000 shares? a) ₹ 21,000 b) ₹ 9,000 c) ₹ 16,000 d) ₹ 30,000	**1**	Knowledge and computation
7	On 1st April 2022, Galaxy ltd. had a balance of ₹8,00,000 in Securities Premium account. During the year company issued 20,000 Equity shares of ₹10 each as bonus shares and used the balance amount to write off Loss on issue of Debenture on account of issue of 2,00,000, 9% Debentures of ₹100 each at a discount of 10% redeemable @ 5% Premium. The amount to be charged to Statement of P&L for the year for Loss on issue of Debentures would be: a) ₹30,00,000. b) ₹22,00,000. c) ₹24,00,000. d) ₹20,00,000.	**1**	knowledge
8	JCV Ltd. forfeited 200 shares of Rs.10 each issued at a premium of Rs.2 per share for the non payment of allotment money of Rs.3 per share (including premium). The first and final call of Rs.4 per share has not been made as yet. 50% of the forfeited shares were reissued at Rs.8 per share as fully paid up. Pass necessary journal entries.	**3**	Analysis and computation
9	Lilly Ltd. forfeited 100 shares of ₹10 each issued at10% premium (₹8 called up) on which a shareholder did not pay ₹3 of allotment (including premium) and first call of ₹2. Out of these 60 shares were reissued to Ram as fully paid for ₹8 per share and 20 shares to Suraj as fully paid up @ ₹12 per	**4**	Understanding, computation and analysis

	share at different intervals of time. Prepare Share Forfeiture account.		
10	Yogadatra Ltd. (pharmaceutical company) appointed marketing expert, Mr. Kartikay as the CEO of the company, with a target to penetrate their roots in the rural regions. Mr. kartikay discussed the ways and means to achieve target of the company with financial, production and marketing departmental heads and asked the finance manager to prepare the budget. After reviewing the suggestions given by all the departmental heads, the finance manager proposed requirement of an additional fund of ₹52,50,000. Yogadatra Ltd. is a zero-debt company. To avail the benefits of financial leverage, the finance manager proposed to include debt in the capital structure. After deliberations, on April1,2020, the board of directors had decided to issue 6% Debentures of ₹100 each to the public at a premium of 5%, redeemable after 5 years at ₹110 per share. You are required to answer the following questions: (i) Calculate the number of debentures to be issued to raise additional funds. (ii) Pass Journal entry for the allotment of debentures. (iii)Pass Journal entry to write off loss on issue of debentures. (iv)Calculate the amount of annual fixed obligation associated with debentures. (v) Prepare Loss on Issue of Debentures Account.	**6**	Understanding , analysis and computation
	PART II **STANDARD (COMPETENCY BASED QUESTIONS)**		
1	Savitri Ltd. issued 50,000, 8% Debentures of ₹ 100 each at certain rate of premium and to be redeemed at 10% premium. At the time of writing off Loss on Issue of Debentures, Statement of Profit and Loss was debited with ₹ 2,00,000. At what rate of premium, these debentures were issued? (A) 10% (B) 16% (C) 6% (D) 4%	1	Concept knowledge and computation
2	A company forfeited 4,000 shares of Rs.10 each on which application money of Rs.3 has been paid. Out of these 2,000 shares were reissued as fully paid up and Rs.4,000 has been transferred to capital reserve. Calculate the rate at which these shares were reissued. (A) Rs.10 Per share (B) Rs. 9 Per share (C) Rs.11 Per share (D) Rs.8 Per share	1	In depth knowledge
3	*Assertion (A) :* Irredeemable debentures are also known as perpetual debentures.	1	Concept knowledge

	Reason (R) : The company does not give any undertaking for the repayment of money borrowed by issuing such debentures. They are repayable on the winding up of the company or on the expiry of a long period. Choose the correct option from the following: (A) Both Assertion (A) and Reason (R) are correct and Reason (R) is the correct explanation of Assertion (A). (B) Both Assertion (A) and Reason (R) are correct, but Reason (R) is **not** the correct explanation of Assertion (A). (C) Assertion (A) is incorrect, but Reason (R) is correct. (D) Assertion (A) is correct, but Reason (R) is incorrect		and computation
4	Shiv Ltd. forfeited 500 shares of Rs. 10 each on which Rs. 7 per share was paid. These shares were reissued for Rs. 9 per share fully paid. Amount transferred to Capital Reserve Account will be : (A) Rs. 3,000 (B) Rs. 5,000 (C) Rs. 4,500 (D) Rs. 3,500	1	Understanding and Analysis
5	Rancho Ltd. took over assets worth ₹ 20,00,000 from PK Ltd. by paying 30% through bank draft and balance by issue of shares of ₹ 100 each at a premium of 10%. The entry to be passed by Rancho Ltd for settlement will be :	1	Understanding and Analysis

A.	PK Ltd. Dr.
	  To Share Capital A/c
	   To Securities Premium A/c
	   To Bank A/c
	   To Statement of P&L
	(Being settlement of amount due to vendors)
		20,00,000	12,72,700
			1,27,270
			6,00,000
			30	

B.	PK Ltd. Dr.
	  To Share Capital A/c
	   To Securities Premium A/c
	   To Bank A/c
	(Being settlement of amount due to vendors)
		20,00,000	12,72,700
			1,27,270
			6,00,030	

C.	PK Ltd. Dr.
	  To Share Capital A/c
	   To Securities Premium A/c
	To Bank A/c
	(Being settlement of amount due to vendors)
		20,00,000	12,72,700
			1,27,300
			6,00,000	

D.	PK Ltd. Dr.
	  To Share Capital A/c
	   To Securities Premium A/c
	   To Bank A/c
	(Being settlement of amount due to vendors)
		20,00,000	12,73,000
			1,27,300
			5,99,700	

6	Assertion (A) :- A Company is Registered with an authorised Capital of 5,00,000 Equity Shares of ₹10 each of which 2,00,000 Equity shares were issued and subscribed. All the money had been called up except ₹2 per share which was declared as 'Reserve Capital'. The Share Capital reflected in balance sheet as 'Subscribed and Fully paid up' will be Zero. Reason (R) :- Reserve Capital can be called up only at the time of winding up of the company. (a) Both Assertion (A) and Reason (R) are Correct and Reason (R) is the correct explanation of Assertion (A) (b) Both Assertion (A) and Reason (R) are Correct, but Reason (R) is not the correct explanation of Assertion (A) (c) Assertion (A) is incorrect, but Reason (R) is Correct. (d) Assertion (A) is correct, but Reason (R) is incorrect	1	Critical thinking and problem solving
7	A company forfeited 3,000 shares of ₹10 each, on which only ₹5 per share (including ₹1 premium) has been paid. Out of these few shares were re-issued at a discount of ₹1 per share were and ₹6,000 were transferred to Capital Reserve. How many shares were re-issued? a) 3,000 shares b) 1,000 shares	1	Problem solving strategies

	c) 2,000 shares d) 1,500 shares		
8	Anthony Ltd. issued 20,000, 9% Debentures of ₹ 100 each at 10% discount to Mithoo Ltd. from whom Assets of ₹ 23,50,000 and Liabilities of ₹ 6,00,000 were taken over. Pass entries in the books of Anthony Ltd. if these debentures were to be redeemed at 5% premium.	3	Abstract thinking and computation
9	Atishyokti Ltd. company was registered with an authorized capital of ₹ 20,00,000 divided into 2,00,000 Equity Shares of ₹ 10 each, payable ₹ 3 on application, ₹ 6 on allotment (including ₹ 1 premium) and balance on call. The company offered 80,000 shares for public subscription. All the money has been duly called and received except allotment and call money on 5,000 shares held by Manish and call money on 4,000 shares held by Alok. Manish's shares were forfeited and out of these 3,000 shares were re-issued ₹ 9 per share as fully paid up. Show share capital in the books of the company. Also prepare notes to accounts.	4	Attention to detail and computation
10	Printkit Limited invited applications for issue of 80,000 equity shares of Rs. 10 each. The amount was payable as follows : On Application Rs. 3 per share On Allotment Rs. 2 per share On First and Final call Balance Applications for 1,50,000 shares were received. Applications for 10,000 shares were rejected and pro-rata allotment was made to the remaining applicants on the following basis : Category A: Applicants for 80,000 shares were allotted 40,000 shares. Category B: Applicants for 60,000 shares were allotted 40,000 shares. Excess money received on application was adjusted towards amount due on allotment and first and final call. All the amounts due on allotment and first and final call were duly received. Pass necessary journal entries in the books of Printkit Limited.	6	Attention to detail and computation

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Subject: Business Studies **Assignment No.: 6**
Allotment Date: 30 November 2025 **Marks: 20+20=40**

PART I
BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1.	Assertion (A) The concept of Need and Wants uses as the same in the marketing world. Reason (R) Need refers to the basic or fundamental requirements of human beings to live a comfortable life such as Food, Cloth, Water and Shelter etc. (a) Both A and R are true. 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 correct, but R is incorrect (d) A is incorrect, but R is correct	1	Identifying
2.	Consumer Protection Act 2019 has provide............. . Rights to the consumers. a) 5 b) 6 c) 8 d) no rights given	1	Remembering
3.	<table><tr><td>A) Right to seek redressal.</td><td>i) Right to get heard in a consumer forum against grievances</td></tr><tr><td>B) Right to be heard.</td><td>ii) Right to know the MRP, The expiry date, Weight and quantity.</td></tr><tr><td>C) Right to be informed.</td><td>iii) Right to get relief if product falls short of his expectations</td></tr></table> Match the following and find out correct option a) A) i, B ii c iii b) A ii Bi C iii c) A iii Bii C i d) A iii, B i , Cii	1	Understanding
4.	If any aggrieved party is not satisfied with the order of the District Commission. Then he can appeal before the state Commission within....... Days of passing of the order. a) 20 b) 25 c) 30 d) 45	1	Critical thinking
5.	Isha is a pure vegetarian. She went to a snacks bar and asked for Veg burger. Inspite of green Dot (signifying that it is a vegetarian product) on the packing of burgur, she found that the burger had some non-veg content. Under which right will Isha be able to claim compensation? a) Right to choose b) right to be informed c) right to safety d) right to seek redressal	1	Critical thinking

6	One of the important decision areas under the marketing function of …………………….. is managing inventory. a. Branding b. Pricing c. Promotion d. Physical distribution.	**1**	Identifying
7	Statement-I Transportation helps in creating time utility and warehousing helps in creating place utility Statement-II The process of classification of products into different groups on the basis of their important characteristics is known as standardization. Choose the correct option from the options given below: a. Statement I is true and II is false b. Statement II is true and I is false c. Both the statements are true d. Both the statements are false	**1**	Knowledge
8	Shyam bought a pain-relieving ointment after seeing it being displayed in the chemist's shop. The ointment tube was packed in cardboard box. Q1. Identify the different levels of packaging of the pain-relieving medicine when it was purchased by Shyam. Also state the functions of packaging.	**3**	Reasoning and understanding
9.	A company was marketing 'water purifiers' which were very popular due to their quality and after sales services provided to the customers. The company was a leading company in the market and earning huge profits. Because of huge profits the company ignored the after sales services. As a result its relations with the customers got spoiled and the image of the company was damaged in the public. Top management became concerned when the profits for the current quarter fell steeply. On analysis it was revealed that ignoring the after sales services was its reason. Therefore the company took all possible measures to protect and promote its favourable image in the eyes of the public. As a result the goodwill of the company improved in the society. (a) Name and state the communication tool used by the marketer in the above case to improve its image. (b) Also explain role of the tool as identified in part (a).	**4**	Remembering
10	Sumit purchased an ISI mark washing machine of a famous brand MG from TG Electronics Limited. The shopkeeper asked him to wait	**6**	Remembering

	for two days for installation of the machine. His friend Vivek was very fond of experimenting with new electronic product. He told Sumit that there is no need to wait for the company's representative to install the machine and that he could do it. So both of them installed the machine without following the manufacturer's instruction. Initially that machine worked effectively and the wash was good, but after two days the machine is started stopping in between the Wash Cycle, Sumit and Vivek tried their best to start the machine, but failed in their efforts. Sumit therefore approach TG Electronics Limited, which refused to provide any services on the plea that the installation of the machine was not done by the company. a. State the responsibility which Sumit had to fulfil as an aware consumer to get the service of the company. b. Explain briefly any two rights which Sumit could have exercise, had he fulfilled his responsibility identify in Part (a).		
	PART II **STANDARD (COMPETENCY BASED QUESTIONS)**		
1.	Assertion (A) Market is a meeting place of both buyer and seller for exchange of goods and service. Reason (R) It provides the buyer to choose and procure its desired products from alternative options available at a single place. (a) Both A and R are true. 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 correct, but R is incorrect (d) A is incorrect, but R is correct	**1**	In depth knowledge
2.	Who among the following is not considered consumer under Consumer Protection Act 2019? a) A person who buys any goods for consideration which have been paid. b) A person who avails of any services for a consideration which have been promised. c) A person who avails for a service for a commercial purpose. d) Any users of goods when such use is made with the approval of the buyer.	**1**	Attention to detail
3.	) Which of the following statement is correct? a) District commission consists of a president and minimum two other members.	**1**	Analysis and understanding

	b) state commission consist of one president and atleast four other members c) Orders pass by national commission in a matter of its original juridiction is appealable before the supreme court d) All of the above.		
4.	Prakhar Ltd. is the manufacturer of life-saving drugs. There was an outbreak of flu two years back that spread quickly and affected many people. Prakhar Ltd. made huge investment on research and development and was able to develop a medicine for the same. The medicine was very effective in controlling the flu and now it has become a necessity for the patients. As a result, the demand for the medicine increased manifold. Considering the demand, the company increased the price of the medicine. The government observed the situation. Since it was the only available medicine to combat flu, the Government declared it as an essential medicine and regulated its price to make it affordable for the public. From the following, identify the factor(s) affecting the determination of price discussed in the above case: (i) Product cost (ii) Marketing methods used (iii) Utility and demand (iv) Government and legal regulations (A) (iv) only (B) (i), (iii) and (iv) (C) (iii) and (iv) (D) (i), (ii) and (iii)	1	Logical reasoning
5.	When the products are sold by a manufacturer to the end consumer without involving any intermediary, the type of channel of distribution used is: (A) Zero level channel (B) One level channel (C) Two level channel (D) Three level channel	1	Logical reasoning
6.	The process of classification of products into different groups, on the basis of some of the important characteristics such as quality, size, etc. is known as: A. Branding B. Standardisation C. Grading D. Marketing planning	1	Understanding and application
7.	A bottle of Anti- dandruff shampoo mentions ' Clean your hair and get rid of dandruff in one squeeze'. The product related decision involved is a) Branding b) Product quality c) Packaging d) Labelling	1	Critical thinking
8.	ITC started its business with Jobaico industry, later on its entered in hotel industry, consumer goods industry, stationery, etc. ITC assured quality to customer and kept company's name as its identity. This helps the customers in product identification and hence ensure quality it also built up their confidence and help in increasing their level	3	Critical Thinking and understanding

	of satisfaction. (i) Name the element of marketing mix referred in above para. (ii) Name the other element of marketing mix. (iii) Name the concept which assure quality and help in identification of product.		
9.	Kamana purchased a medicine from Bhatia Medical Store for his son, who had high fever. Even after giving the medicine his son's health condition did not improve and he had to be hospitalised. Doctors informed Kamana that the medicine given to his son was spurious. Kamana complaint about this to the "Bhatiya Madical" store, as a result Store decided to file complaint against the manufacturer in the consumers court.	**4**	In depth knowledge
10	'Nayeem'is a famous chain selling a large variety of products in the Indian market. Their products include chips, biscuits, sweets and squashes. It charges a comparatively higher price than its competitors as it sells quality products. Besides, it offers regular discounts to its customers and easy credit terms to its retailers. It has five of its own retail shops. It also sells its products through various grocery stores so that the products are made available to customers at the right place, in the right quantity and at the right time. It regularly uses different communication tools to increase its sales. The above para describes the combination of variables used by Nayeem to prepare its market offering. Identify and explain the variables.	**6**	

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

Subject: Economics **Assignment No.: 6**
Allotment Date: 30 November 2025 **Marks: 20+20=40**

PART I

BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	Which of the following is not a renewable resource? (a) Solar energy (b) Wind energy (c) Coal (d) Water	1	Remembering
2	The major cause of global warming is the increase in the concentration of: (a) Nitrogen (b) Carbon dioxide (c) Hydrogen (d) Oxygen	1	Understanding
3	The term "sustainable development" refers to: (a) Development that decreases the stock of natural resources (b) Development that meets present needs without compromising future needs (c) Rapid industrialisation without restrictions (d) Development with maximum use of fossil fuels	1	Information
4	Which of the following is an example of environmental degradation? (a) Reforestation (b) Recycling of waste (c) Soil erosion (d) Use of solar power	1	Evaluation Skill
5	Which of the following is a non-economic cause of environmental degradation? (a) Rapid industrialisation (b) Urbanisation (c) Poverty (d) Overuse of fertilizers	1	Remembering
6	China's rapid industrial growth is often attributed to economic reforms initiated in 1978. Which reform played the most crucial role in accelerating China's growth?	1	Interdisciplinary

	(a) Shift to a controlled economy (b) Introduction of Special Economic Zones (SEZs) (c) Reduction in agricultural output (d) Adoption of import substitution		
7	**Case:** Between 1980 and 2010, China's GDP grew at a much faster rate than India's. During this period, China invested heavily in infrastructure and expanded its manufacturing sector through Special Economic Zones (SEZs). Question: Which of the following factors contributed MOST to China's faster growth compared to India? (a) Higher investment in infrastructure and SEZ-led manufacturing (b) Lower population growth (c) Greater dependence on agriculture (d) High trade barriers	1	Understanding
8	'Stimulating public mode of transport may lead to promote sustainable development'. Explain with valid arguments.	3	Calculation Skills
9	Define the following terms: (a) Carrying capacity (b) Bio-composting (c) Sustainable Development (d) Absorptive capacity of the environment	4	Understanding/Analyse
10	"India, China and Pakistan have travelled more than seven decades of developmental path with varied results." Explain the given statement with valid arguments.	6	Problem Solving
	PART II **STANDARD (COMPETENCY BASED QUESTIONS)**		
1	**Assertion (A):** Sustainable development requires control over the use of natural resources. **Reason (R):** Overuse of natural resources reduces their availability for future generations. **Choose the correct option:** (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	HOT
2	**Assertion (A):** Environmental degradation is a major challenge in developing countries. **Reason (R):** Developing countries have high levels of industrialisation with strict pollution control measures.	1	Interdisciplinary

	Choose the correct option: (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		
3	**Statement:** The use of renewable resources at a rate faster than their regeneration can also lead to environmental degradation. This statement is: (a) True (b) False	1	Critical Thinking and Problem Solving
4	The carrying capacity of the environment refers to: (a) Maximum pollution an area can generate (b) Maximum population that the environment can support sustainably (c) Minimum resources required for growth (d) Maximum number of industries allowed in a region	1	Critical Thinking
5	The concept of "polluter pays principle" means: (a) Government should pay for pollution control (b) Only consumers should bear pollution cost (c) Those who cause pollution must bear the cost of managing it (d) No one is responsible for pollution	1	Analytical Thinking
6	India and Pakistan followed similar economic policies after independence. Yet, India's GDP growth eventually surpassed Pakistan's. Which factor best explains this divergence? (a) Higher investment in human capital in India (b) Larger land area of India (c) Lower population of Pakistan (d) More natural resources in India	1	Logical Reasoning
7	Despite similar starting points in the 1950s, China achieved faster poverty reduction than India. Which of the following BEST reflects the reason? (a) Greater focus on heavy industries (b) Market-oriented reforms boosting productivity (c) Larger rural population (d) Higher trade barriers	1	Reasoning
8	India, China, and Pakistan started their development journey around the same time, yet their economic outcomes today are very different. China achieved rapid industrial growth and poverty reduction, while India progressed more gradually and Pakistan faced greater economic instability. Question:	3	Critical Thinking and Problem solving

	Analyse any three factors that explain why China's economic performance has been stronger than India's and Pakistan's, despite similar starting points.		

9	Comments upon the following statements:
	    (i) Traditional knowledge and practices are still applicable in ensuring sustainable development.
	    (ii) A well-structured rural banking system is important for the development of a nation.
		4	Graphical skill

10	Evaluate the various factors that led to the rapid growth of economic development of China.	**6**	Evaluation Skill/Problem Solving

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Subject: History   **Assignment No.: 6**
Allotment Date: 30 November 2025   **Marks: 20+20=40**

PART I
BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1.	**PART-A** i. The Rowlatt Act (1919) empowered the government to: A. Collect taxes without consent B. Detain political activists without trial C. Prohibit foreign goods D. Grant communal representation ii. Which event led Gandhi to call off the Non-Cooperation Movement? A. Jallianwala Bagh B. Chauri Chaura incident C. Arrest of national leaders D. Launch of Simon Commission iii. Which of the following was *not* a feature of Gandhi's mass mobilisation strategy? A. Use of symbols like spinning wheel B. Encouraging militant nationalism C. Boycotting foreign cloth D. Promotion of Hindu–Muslim unity iv. The Gandhi–Irwin Pact (1931) did **not** include which agreement? A. Release of political prisoners (non-violent) B. Right to make salt for personal use C. Participation of Congress in Round Table Conference D. Grant of full independence to India v. Gandhi's idea of *Satyagraha* primarily emphasised: A. Violent retaliation B. Passive submission C. Truth and non-violent resistance D. Communal representation in councils	1x6=6	Remembering

	vi. The Indian National Congress called off the Civil Disobedience Movement finally in: A. 1931 B. 1933 C. 1934 D. 1936			
2.	**PART-B** *Answer in short:* Explain the significance of Dandi March?	**3**		Understanding
3.	**PART-C** *Answer in detail:* "Using examples from the political atmosphere of 1919, explain why Indians felt the need to protest against the Rowlatt Act. How would you have reacted if such a law were imposed today?" OR Explain the sources from which we can reconstruct the political career of Mahatma Gandhi and the history of National Movement of India.	**8**		Applying

4.	**PART-D**
	Map Question:
	
	On a political map of India, locate and mark the following:
	   a) The place where Gandhiji launched a Satyagraha against the indigo planters.
	   b) The place where the Jallianwala Bagh Massacre occurred
	   c) Bardoli
		3		Identifying

	PART II **STANDARD (COMPETENCY BASED QUESTIONS)**			
1.	**PART-A** ***Objective Type Questions:*** i. **Assertion (A):** Gandhi's Civil Disobedience Movement had greater participation of women compared to earlier movements. **Reason (R):** Gandhi believed women were unfit for political struggle. A. Both A and R are true but R does not explain A. B. A is true but R is false. C. A is false but R is true. D. Both A and R are true and R explains A.	**1x4=4**		Applying Knowledge

	ii. Arrange the following events in correct chronological order:
	   1. Gandhi returns to India
	   2. Jallianwala Bagh massacre
	   3. Non-Cooperation Movement launched
	   4. Champaran Satyagraha
	
	iii. Match the Following:
	
	Column A **Column B**
	1. Rowlatt Act a. 1920–22
	2. Non-Cooperation Movement b. 1930
	3. Civil Disobedience Movement c. 1919
	4. Quit India Movement d. 1942
	
	iv. **Statement based Question:**
	   1. Gandhi participated in all three Round Table Conferences.
	   2. Civil Disobedience Movement included boycotting foreign goods and non-payment of taxes.
	   3. Gandhi was arrested immediately after the Salt March.
	Which is correct?
	A. 1 and 2 only
	B. 2 and 3 only
	C. 1 and 3 only
	D. 1, 2, and 3			

2.	PART-B *Answer in short:* "Critically examine the reasons behind the failure of the Cripps Mission. In your analysis, evaluate whether the British proposals were genuinely inadequate or whether the political demands of Indian leaders and communities made any agreement impossible at that moment."	**3**	Creating
3.	 'The Quit India Movement was truly a mass movement'. Justify this statement with suitable arguments.	**3**	Analysing
4.	**PART-C** *Answer in detail:* "Gandhiji was often surrounded by rumours of possessing 'miraculous powers'. In your opinion, what social or psychological factors might have led ordinary people to believe such claims? Analyse whether such beliefs strengthened or weakened the nationalist movement, giving your own reasoned judgement." OR "In your view, how far did the Civil Disobedience Movement transform the nature and direction of India's freedom struggle?	**8**	(HOT) Analytically Evaluating & Synthesizing

	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."			
5.	**PART-D** ***Sources Based Question:*** Read the following extract carefully and answer the questions that follow: **<u>Charkha</u>** Mahatma Gandhi was profoundly critical of the modern age in which machine enslaved humans and displaced labour. He saw the charkha as a symbol of a human society that would not glorify machines and technology. The spinning wheel, moreover, could provide the poor with supplementary income and make them self-reliant. What I object to, is the craze for machinery as such. The craze is for what they call labour saving machinery. Men go on "saving labour", till thousands are without work and thrown on the open streets to die of starvation. I want to save time and labour, not for a fraction of mankind, but for all; I want the concentration of wealth, not in the hands of few, but in the hands of all. YOUNG INDIA, I3 NOVEMBER 1924 Khaddar does not seek to destroy all machinery but it does regulate its use and check its weedy growth. It uses machinery for the service of the poorest in their own cottages. The wheel is itself an exquisite piece of machinery. YOUNG INDIA, 17 MARCH 1927 **Questions:** i. "Using Gandhi's arguments in the source, critically analyse whether his opposition to large-scale industrial machinery was realistic for India's economic needs. To what extent do you think his model of decentralised production could address modern problems of unemployment and inequality?" ii. "Gandhi argued that machines should be used only if they uplift the poorest and prevent unemployment. Apply this idea to a present-day situation (such as automation, AI, or factory production) and explain whether Gandhi's concerns would still be valid today. Give examples to support your answer."	**2x1=2**	Application and understanding Based

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Subject: **Political Science**   Assignment No.: **6**
Allotment Date: **30 November 2025**   Marks: **20+20=40**

PART I
BASIC (GENERAL BASED QUESTION)

S. NO.	QUESTIONS	MARKS	NATURE
1	**MCQ BASED QUESTION:** **(i) Globalization has led to the flow of ideas across** (a) National boundaries. (b) State. (c) Political parties. (d) Different planets. **(ii) With the globalisation of markets, the tastes and preferences of consumers world-wide are** (a) Becoming similar to the tastes and preferences of American consumers. (b) Being encouraged by multinational organizations to become increasingly similar. (c) So different that they can be ignored by international organizations. (d) Converging upon a global norm. **OR** **(iii) According to the rightist view in India, globalisation tends to………………..** (a) Benefits the weaker section of the society. (b) Divides the State into rich and poor. (c) Weakens the State. (d) Reduces political party competition. **(iv) Which alliance formed the government at the centre in 1989?** (a) National Front (b) United Front (c) Third Front (d) Real Front **(v) Nagaland state was created in the year** (a) 1980. (b) 1966. (c) 1987.	(4x1=4)	Information

	(d) 1963.		
	OR		
	(vi) Which students group led the anti-foreigner movement in Assam?		
	(a) All Assam Workers' Union		
	(b) All Assam Students' Union		
	(c) All Assam Official' Union		
	(d) All Assam Women' Union		
2.	**VERY SHORT ANSWER QUESTION** What is W.S.F.? What is its purpose? **OR** What is the significance of the term 'Hindutva Party' with reference to the BJP?	**2**	Understanding
3	**SHORT ANSWER QUESTION** Discuss the significance of the 2004 Lok Sabha elections and the shift in political power. **OR** Discuss the events and aftermath of the Babri Masjid demolition in Ayodhya.	**4**	HOTS

4	**Read the extract carefully and answer the questions that follow:**
	
	 The Congress party was the dominant political force in India after Independence, but its control started to weaken by the late 1980s. The 1989 general elections marked a major turning point, as the party suffered a massive defeat, winning only 197 seats compared to its 415 seats in 1984. This election marked the end of what political scientists called the "Congress system", though the party continued to be an important political force. In 1991, after the assassination of Rajiv Gandhi, Congress returned to power under P.V. Narasimha Rao. However, the rise of regional parties and coalition politics meant that Congress could no longer dominate Indian politics as it once did.
	 Questions:
	 (i) What event marked the decline of the Congress system?
	    (a) Emergency of 1975
	    (b) Assassination of Indira Gandhi
	    (c) The 1989 general elections
	    (d) The formation of BJP
	 (ii) Why was the 1989 election significant in Indian politics?
	 (iii) What were the key reasons for the decline of Congress in the late 1980s?
		(1+1+2=4)	Interdisciplinary& Analytical Thinking

5	**LONG ANSWER QUESTION** Explain any four cultural consequences of globalisation with examples. **OR** Highlight any three major developments that took place in Indian politics during NDA III and NDA IV.	**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
		(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
		
		(i) Assertion (A): The rise of the 'Mandal Issue' in national politics had a significant impact on Indian politics.
		    Reason (R): The Mandal Commission recommended reserving 27 percent of seats for OBCs in educational institutions and government jobs.
		
		(ii) Assertion (A): Globalization reduces state capacity.
		    Reason (R): The market takes over the role of the government in determining economic and social priorities
			(1X2=2)	CBQ Information Real life application Based on CBQ Understanding Based CBQ

7		**VERY SHORT ANSWER QUESTION** Assess the benefits of the Coalition governments in India since 1989. **OR** Mention any four consequences of globalisation. **OR** Mention the effect on the state government after the demolition of the Babri Masjid	**2**	Application based CBQ Real life relevance based CBQ Understanding based CBQ
8		**SHORT ANSWER QUESTION** What is the impact of globalisation on state's sovereignty? **OR** How far is it correct that coalition government in India have helped in achieving some consensus. Explain any two economic consequences of globalisation with the help of example.	**4** **4**	Critical thinking based Question Evaluation based CBQ
9		**Study the cartoon carefully and answer the questions that follow**:	**(1+1+2=4)**	Critical and Analytical thinking

Questions:
(i) What does this cartoon illustrate?
(ii) What is meant by the title 'Yesterday'?
(iii) What does the title 'Today' signify?

| 10 | **LONG ANSWER QUESTION**
Explain the concept of Globalisation. How has technology contributed in promoting globalisation?
<div align="center">OR</div>
In 2014 elections, people have voted for a stable government at a Centre. Do you think that the era of coalition has ended? Support your answer with suitable arguments. | **6** | Analytical Skill based CBQ |

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

Subject: Physical Education   **Assignment No.: 6**
Allotment Date: 30 November 2025   **Marks: 20+20=40**

PART I
BASIC (GENERAL QUESTIONS)

S. No.	QUESTIONS	MARKS	NATURE
1.	What is the importance of sports psychology in physical education?	3	Reasoning-based
2.	Explain the role of motivation in achieving sports performance.	3	Reasoning-based
3.	Mention any two techniques to manage stress in sports.	3	Application
4.	How can a coach help in maintaining the motivation level of athletes?	3	Application
5.	Explain the importance of self-confidence in sports performance.	3	Reasoning-based
6.	What is the relationship between personality and sports performance?	5	Relationship-based

PART II
STANDARD (COMPETENCY BASED QUESTIONS)

S. No.	QUESTIONS	MARKS	NATURE
1.	A basketball coach observes that his team gets tired quickly during matches. As a Physical Education teacher, suggest suitable training methods to develop endurance and explain their benefits.	3	Application + Analytical
2.	An athlete is preparing for a 100m sprint but struggles with reaction time and acceleration. Identify the types of speed needed and describe the training methods to improve them.	3	Case-based + Application

3.	A football player wants to improve his strength and agility for better performance on the field. Suggest appropriate strength training methods and explain how they enhance performance.	3	Application + Analytical
4.	During pre-season training, a coach plans to introduce Fartlek and Interval Training. Compare both methods and explain how each can help improve the athlete's endurance.	3	Comparative + Conceptual
5.	A Physical Education teacher wants to design a circuit training programme for students to develop overall fitness. Explain the steps to design the circuit, components to include, and its advantages.	3	Case-based + Analytical
6.	A long-distance runner is finding it hard to maintain pace during the last lap. Identify the type of endurance needed and suggest appropriate training methods with justification.	5	Problem-solving + Application

Subject: Psychology   **Assignment No.: 6**
Allotment Date: 30 November 2025   **Marks: 20+20=40**

PART I

BASIC(GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	Which of the following is a characteristic of a standardized test? a) Subjective scoring b) **Objective scoring** c) Lack of norms d) Limited use	1	Remembering
2	What is the primary goal of psychological assessment? a) To label individuals b) **To understand individual differences** c) To predict future behavior d) To diagnose mental disorders	1	Understanding
3	What is anxiety?	1	Information
4	Which of the following is a component of personality? a) Cognitive processes b) Emotional processes c) Behavioral processes d) **All of the above**	1	Evaluation Skill
5	What is the term for the process of coping with stress? a) **Coping** b) Defense mechanism c) Stress management d) Emotional regulation	1	Remembering
6	2. Which of the following is an example of a problem-focused coping strategy? a) Seeking social support b) Avoidance c) Denial d) **Planning**	1	Interdisciplinary
7	What is the term for the process of learning new behaviors to replace maladaptive ones? a) Conditioning b) Modelling	1	Understanding

	c) Reinforcement d) Cognitive restructuring		
8	Identify and explain two strategies to reduce social loafing within a group.	**3**	Communication Skills
9	Evaluate the role of common motives and goals in forming and maintaining a cohesive group, with an example.	**4**	Understanding/Analyse
10	Describe four methods through which attitudes are formed.	**6**	Problem Solving
	PART II **STANDARD (COMPETENCY BASED QUESTIONS)**		
1	Assertion (A): Self-esteem is an important aspect of self-concept. Reason (R): Self-esteem is influenced by our achievements and recognition from others. **Options:**(a) Both assertion and reason are true, and the reason explains the assertion. (b) Both assertion and reason are true, but the reason does not explain the assertion. (c) Assertion is true, but the reason is false. (d) Assertion is false, but the reason is true.	**1**	HOT
2	How can the study of psychology inform our understanding of the impact of lifestyle factors, such as diet and exercise, on mental health?	**1**	Interdisciplinary
3	Assertion (A): Defense mechanisms are used to cope with stress. Reason (R): Defense mechanisms are always healthy and adaptive. **Options:** (a) Both assertion and reason are true, and the reason explains the assertion. (b) Both assertion and reason are true, but the reason does not explain the assertion. (c) Assertion is true, but the reason is false. (d) Assertion is false, but the reason is true.	**1**	Critical Thinking and Problem Solving
4	Assertion (A): Personality is influenced by both heredity and environment. Reason (R): Heredity determines the limits of personality development, while environment influences its expression. **Options:** (a) Both assertion and reason are true, and the reason explains the assertion. (b) Both assertion and reason are true, but the reason does not explain the assertion.	**1**	Evaluation

	(c) Assertion is true, but the reason is false. (d) Assertion is false, but the reason is true.		
5	Match the coping strategy with its definition: 1. Problem-focused coping 2. Emotion-focused coping 3. Avoidance coping 4. Social support seeking Definitions: A) Directly addressing the problem to find a solution B) Managing emotions to reduce stress C) Avoiding the problem or situation D) Seeking help and support from others	**1**	Analytical Thinking

6	Assertion (A): Attitudes are learned predispositions to respond to certain objects or issues.
	  Reason (R): Attitudes are innate and cannot be changed.
	  Options: (a) Both assertion and reason are true, and the reason explains the assertion.
	(b) Both assertion and reason are true, but the reason does not explain the assertion.
	(c) Assertion is true, but the reason is false.
	(d) Assertion is false, but the reason is true.
		1	Logical Reasoning

7	Assertion (A): Stress can have both positive and negative effects on individuals.
	  Reason (R): Positive stress (eustress) can motivate individuals to achieve their goals, while negative stress (distress) can lead to anxiety and depression.
	  Options: (a) Both assertion and reason are true, and the reason explains the assertion.
	(b) Both assertion and reason are true, but the reason does not explain the assertion.
	(c) Assertion is true, but the reason is false.
	(d) Assertion is false, but the reason is true.
		1	Reasoning

8	Describe any three life skills that can help a person meet life's challenges.	**3**	Critical Thinking and Problem solving
9	State two steps which are helpful in addressing the concerns of mentally ill people.	**4**	Interdisciplinary
10	Discuss the interview and observation methods used in behavioural analysis. Describe the problems face in using these methods.	**6**	Evaluation Skill/Problem Solving

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Subject: Painting   **Assignment No.: 6**
Allotment Date: 30 November 2025   **Marks: 30**

S. NO.	QUESTIONS	MARKS	NATURE

1	A. In which medium the Rajasthani miniature paintings are made?
	  I. Pastel colours
	  II. Water colours
	  III. Acrylic colours
	  IV. Oil colours
	B. Kangra painting is a part of:
	  I. Pahari school
	  II. Mughal school
	  III. Rajasthani school
	  IV. Deccan School
	C. Mention the title of painting done by painter Nihal Chand of the Rajasthani School?
	  I. Radha
	  II. Krishna lifting mountain
	  III. Krishna with Gopies
	  IV. MaruRagini
	D. On which mythological book, the famous miniature painting Bharat Meets Rama at Chitrakuta is based?
	  I. Ramayana
	  II. Guruvani
	  III. Rasikpriya
	  IV. GeetGovinda
	E. In which its sub school the famous miniature painting of the Deccan school 'Chand Bibi playing Polo' is made:
	  I. Bijapur Sub School
	  II. Gol Konda Sub School
	  III. Ahmadnagar Sub school
	  IV. Hyderabad Sub school
	F. Mention the title of the miniature painting done by the Miskin Painter of the Mughal school:
	  I. Ragini Pat-hansika
	  II. Chaughan Players
	  III. Krishna Lifting the Mount Govardhana
	  IV. Marriage Procession of Dara Shiroh
		1*6=6	Information

2	Evaluate the compositional arrangement of any three of the following in short:(30 words)	2*3=6	Evaluation

	I. Evaluate the aesthetic grandeur of the Deccan school paintings. II. HazaratNizamuddinAuliya and Amir Khusro		
3	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. The delineation of attenuated human figures with extra elongated limb and tapering fingers, which reflect the experience ot the Rajasthan Pahari and Mughal miniatures. Hence emphasis on European realism is terminated. b. Which of the contemporary Indian Graphical painter you like the most? Write about the style, characteristics, and materials etc. of his/her works.	3*2=6	HOT
4	Write short note on any two of the following: i. Hyderabad school of painting ii. Guler painting iii. Nainsukh iv. AnupamSud	6*1=6	Understanding
5	a. Write an essay on any one of the following and describe about their characteristics techniques: i. Mughal school ii. Appreciate contemporary Indian paintings included in your course of study.	6*1=6	Application

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

Subject: NCC   **Assignment No.: 6**
Allotment Date: 30 November 2025   **Marks: 20+20=40**

PART I

BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	Which instrument is used to measure direction on a map? a) Ruler b) Compass c) Barometer d) Clinometer	1	Remembering
2	A contour line represents: a) Population b) Altitude c) Road network d) Water level	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	During floods, the most important immediate action is: a) Evacuation and rescue of people b) Constructing new houses c) Waiting for water to recede d) Starting road construction	1	Evaluation Skill
5	Community development in NCC is promoted by: a) Social service activities b) Blood donation c) Tree plantation and cleanliness drives d) All of the above	1	Remembering
6	Which of the following is a standard infantry rifle of the Indian Army? a) INSAS rifle b) AK-47 c) LMG d) Revolver	1	Interdisciplinary
7	The main purpose of field signals is: a) To decorate uniforms b) Silent communication in battle	1	Understanding

	c) For NCC parades only d) To confuse the enemy		
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	What is the contour interval of a 1:50,000 scale map? a) 10 m b) 20 m c) 50 m d) 100 m	**1**	HOT
2	What does a 6-figure grid reference provide? a) Approximate area b) Exact point location c) Map scale d) Magnetic variation	**1**	Interdisciplinary
3	Which formation is best for patrolling in dense jungle? a) Line formation b) Column formation c) File formation d) Extended line	**1**	Critical Thinking and Problem Solving
4	Camouflage is used to: a) Stay visible b) Impress others c) Avoid detection d) Walk faster	**1**	Evaluation
5	Which of the following is NOT a part of field craft? a) Judging distance b) Map reading c) Cover from fire d) Weapon cleaning	**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	**1**	Reasoning

	c) Ground with no vegetation d) Frozen land		
8	Explain three safety precautions while using a compass during field exercises.	**3**	Critical Thinking and Problem solving
9	Explain the various methods of finding own position.	**4**	Interdisciplinary
10	Suppose you are a soldier and you are alone in an unidentified area. You have a compass and map of that area with you. Can you find your own position on the map? If yes, how?	**6**	Evaluation Skill/Problem Solving

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Subject: Health and Physical Education   **Assignment No.: 6**
Allotment Date: 30 November 2025   **Marks: 20+20=40**

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		

Subject: Computer Science   **Assignment No.: 6**

Allotment Date: 30 November 2025   **Marks: 20+20=40**

Q No.	Questions	Marks
	Section-A (11 Marks)	
1	In order to open a connection with MySQL database from within Python using mysql.connector package, ... function is used. a) open() b) database() c) connect() d) connectdb()	1
2	A database .... controls the connection to an actual database, established from within a Python program. a) database object b) connection object c) fetch object d) query object	1
3	The set of records retrieved after executing an SQL query over an established database connection is called .... a) table b) sqlresult c) result d) resultset	1

\\4	A database................ is a special control structure that facilitates the row by row processing of records in the resultset. a) fetch b) table c) cursor d) query	1

5	Which of the following is not a legal method for fetching records from database from within Python? a) fetchone() b) fetchtwo() c) fetchall() d) fetchmany()	1
6	To obtain all the records retrieved, you may use <cursor>. .... method. a) fetch() b) fetchmany() c) fetchall() d) fetchmultiple()	1
7	To fetch one record from the resultset, you may use <cursor>. ....method. a) fetch() b) fetchone() c) fetchtuple() d) none of these	1

8	To fetch multiple records from the resultset, you may use <cursor>. .... method. a) fetch() b) fetchmany() c) fetchmultiple() d) fetchmore()	1
9	To run an SQL query from within Python, you may use <cursor>. .... method(). a) query() b) execute() c) run() d) all of these	1
10	To reflect the changes made in the database permanently, you need to run <connection>................ method. a) done() b) reflect() c) commit() d) final()	1
11	What is the package used for creating a Python database connectivity	1

	application. a) Connect.mysql b) Connector.mysql c) Mysql.connect d) Myqsl.connector	
Q No.	Questions Section-B (8 Marks)	Marks

12	How is database connectivity useful ?	2
13	What is a connection ?	2
14	What is a result set ?	2
15	What is the package used for creating a Python database connectivity application.	2

Q No.	Questions Section-C (12 Marks)	Marks
16	What are the steps to connect to a database from within a Python application ?	3
17	Explain what the following query will do ? import mysql.connector db = mysql.connector.connect(. ...) cursor = db.cursor() person_id = input("Enter required person id") lastname = input("Enter required lastname") db.execute("INSERT INTO staff (person_id, lastname) VALUES ({}, '{}')".format(person_id, lastname)) db.commit() db.close()	3
18	Explain what the following query will do ? import mysql.connector db = mysql.connector.connect(. ...) cursor = db.cursor() db.execute("SELECT * FROM staff WHERE person_id in {}".format((1, 3, 4)))	3

	db.commit() db.close()	
19	Which method do you use to fetch records from the result set ?	3
S No.	**Qu estions Section -D (4 Marks)**	**Marks**
20	Design a Python application that fetches only those records from **Event** table of **menagerie** database where type is **Kennel.**	4
S No.	**Qu estions Section -E (5 Marks)**	**Marks**
21	Design a Python application that fetches all the records from **Pet** table of **menagerie** database.	5