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

Subject: English   **Assignment No.: 8**
Allotment Date: 31January 2026   **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)	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

Subject: Hindi　　　　　　　　　　　　　**Assignment No.: 8**
Allotment Date: 31January 2026　　　　　**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) जब समाचार-पत्रों मेंसर्वसाधारण के लिए कोई सूचना प्रकाशित की जाती है, तो उसको विज्ञापन कहतेहैं। यह सूचना नौकरियों से संबंधित हो सकती है, खाली मकान को किराए पर उठानेकेसंबंध मेंहो सकती हैया किसी औषधि के प्रचार सेसंबंधित हो सकती है। कुछ लोग विज्ञापन केआलोचक हैं। वेइसेनिरर्थक मानतेहैं। उनका मानना हैकि यदि कोई वस्तुयथार्थरूप मेंअच्छी है, तो वह बिना किसी विज्ञापन के ही लोगों के बीच लोकप्रिय हो जाएगी, जबकि खराब वस्तुएँविज्ञापन की सहायता पाकर भी भंडाफोड़ होने पर बहुत दिनों तक टिक नहीं पाएँगी, परंतुलोगों की यह सोच गलत है। आज के युग मेंमानव का प्रचार-प्रसार का दायरा व्यापक हो चुका है। अतः विज्ञापनों का होना अनिवार्यहो जाता है। किसी अच्छी वस्तुकी वास्तविकता सेपरिचय पाना आज के विशाल संसार मेंविज्ञापन के बिना नितांत असंभव है। विज्ञापन ही वह शक्तिशाली माध्यम है, जो हमारी जरूरत की वस्तुएँप्रस्तुत करता है, उनकी माँग बढ़ाता हैऔर अंततः हम उन्हेंजुटानेचल पड़तेहैं। यदि कोई व्यक्ति या कंपनी किसी वस्तुका निर्माण करती है, उसेउत्पादक कहा जाता है। उन वस्तुओंऔर सेवाओंको खरीदनेवाला उपभोक्ता कहलाता है। विज्ञापन इन दोनो को जोड़नेका कार्यकरता है। वह उत्पादक को उपभोक्ता केसंपर्क मेंलाता हैतथा माँग और पूर्ति में संतुलन स्थापित करनेका प्रयत्न करता है। पुरानेजमानेमेंकिसी वस्तुकी अच्छाई का विज्ञापन मौखिक तरीकेसेहोता था। काबुल का मेवा, कश्मीर की जरी का काम, दक्षिण भारत के मसालेआदि वस्तुओंकी प्रसिद्धि मौखिक रूप सेहोती थी। उस समय आवश्यकता भी कम होती थी तथा लोग किसी वस्तुके अभाव की तीव्रता का अनुभव नहीं करतेथे। आज समय तेजी का है। संचार-क्रांति नेजिंदगी को स्पीड देदी है। मनुष्य की आवश्यकताएँबढ़ती जा रही हैं, इसलिए विज्ञापन मानव-जीवन की अनिवार्यता बन गया है। (i) **विज्ञापन का मुख्य उद्देश्य क्या है?** (1) क) वस्तुओंका निर्माण करना ख) वस्तुओंको खरीदना ग) उत्पादक और उपभोक्ता को जोड़ना घ) वस्तुओंका भंडारण करना (ii) **पुरानेजमानेमेंवस्तुओंकी अच्छाई का विज्ञापन कैसेहोता था?** (1) क) समाचार-पत्रों के माध्यम से ख) मौखिक तरीकेसे ग) टेलीविजन पर	**10**	Information

	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)		
2	प्रश्न 2. 'बीती ताहि बिसारि दे अथवा । भारतीय संस्कृति : आज की अनिवार्य आवश्यकता है' पर रचनात्मक लेख लिखिए।	**5**	Understanding
3	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 है! 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।	**5**	HOT

	खंड- ख (अभिव्यक्ति और माध्यम पाठ्यपुस्तक केआधार पर) खंड- ग (आरोह भाग - 2 एवं वितान भाग-2 पाठ्यपुस्तकों केआधार पर) ग) केवल कथन I और IV सही हैं। घ) कथन I, II, और III सही हैं। ii. 'घुटनों मेंमाथा रखनेसेपोखर पार नहीं होता है' पंक्ति सेकवि का क्या अभिप्राय है? (1) क) ध्यान और प्रार्थना सेसब कुछ संभव है ख) केवल चिंतन और निराशा सेसमस्याओंका समाधान नहीं होता ग) मेहनत सेही सफलता मिलती है घ) किसी भी कार्यके लिए सहायता की आवश्यकता होती है iii. नीचेदिए गए कॉलम 1 को कॉलम 2 सेसुमेलित करेंऔर सही विकल्प का चयन करें: (1) कॉलम 1 कॉलम 2 I. किसी केसामनेझुकना 1. आदत II. कभी झुकनेमेंनाकामी 2. अफसोस III.जरूरत केसमय झुकना 3. इरादा 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) iv. मशीनी युग मेंसमय महँगा होनेका क्या तात्पर्यहै? (1) v. 'तुम थोड़ा अवकाश निकाली, तुमसेदो बातेंकरनी हैं इस पंक्ति मेंकवि किससेऔर क्यों बात करना चाहतेहैं? (2) vi. मन और स्नेह के बारेमेंकवि क्या परामर्शदेरहा हैऔर क्यों? (2)		
4	प्रश्न –1.किन्ही दो प्रश्नों के उत्तर दे _ i. गाँव वालों ने अपने राज-पहलवान की किस प्रकार सहायता की? क्या गाँव वाले अपने इस प्रयास में सफल हुए? ii. महादेवी वर्मा और भक्तिन के संबंधों की तीन विशिष्टताओं का उल्लेख कीजिए। iii. कालिदास कृत शकुंतला के सौंदर्य को महत्त्व देकर लेखक सौंदर्य को स्त्री के एक मूल्य के रूप मेंस्थापित करता हुआ प्रतीत होता है। क्या यह सत्य है? यदि हाँ तो क्या ऐसा करना उचित है?	5	Interdisciplinary
5	'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।	5	Analytical Skill
6	बाबा साहेब भीमराव आंबेडकर पाठ के आधार पर जाति-प्रथा के कारण काम के प्रति भारत में क्या स्थिति है?	5	Critical Thinking and Problem Solving
7	1. बिंब कितने प्रकार के होतेहैं? पतंग कविता से श्रव्य बिंब छाँटिए। 2. ii. दूरदर्शन के स्टूडियो में अपाहिज से क्या प्रश्न पूछे गए और क्यों? 3. iii. बादल राग पूरी कविता में प्रकृति का मानवीकरण किया गया है। आपको प्रकृति का कौन-सा मानवीय रूप पसंद आया और क्यो ?	5	Evaluation
8	विशेष लेखन में डेस्क की क्या भूमिका होती है? ii. विचारपरक लेखन किसे कहतेहैं? इसके भेदों का उल्लेख करते हुए अख़बार को होने वाले लाभ बताइए। [4]	5	Communication Skills

	iii. समाचार-पत्रों में संपादकीय लेखन का क्या महत्त्व है?		

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CLASS - XII
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Subject: Maths **Assignment No.: 8**
Allotment Date: 31January 2026 **Marks: 20+20=40**

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: $f(x) = \begin{cases} \frac{\sin x}{x} + cosx, & if \ x \neq 0 \\ 2, & if \ x = 0 \end{cases}$ *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) = 0.00013 x^3 + 0.002 x^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(adjA) = $\begin{bmatrix} 2025 & 0 & 0 \\ 0 & 2025 & 0 \\ 0 & 0 & 2025 \end{bmatrix} then\ the\ value\ of\ |A| + |adjA|\ is\ equal\ to:$ (a) I (b) 2025 +I (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) $\frac{\overrightarrow{5p}+3\vec{q}}{4}$ (d) $\frac{\overrightarrow{5p}+3\vec{q}}{8}$	**1**	HOT
14	$\int \frac{1}{x(logx)^2} dx\ is\ equal\ to:$ (a) 2 log(logx) +C (b) $-\frac{1}{logx} + C$ (c) $\frac{(logx)^3}{3}$ +C (d) $\frac{3}{(logx)^3}$ +C	**1**	HOT

15	$\int_0^{2\pi} cosec^7 x\ dx$ equals: (a) 0 (b) 1 (c) 4 (d) 2π	**1**	HOT

16	**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.
	       (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): 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.
		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 $\vec{a} = \hat{\imath} - 2\,\hat{\jmath} + 3\,\hat{k}$. 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**	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:	**4**	Critical Thinking and Problem Solving

(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 error , find the probability that the form is not processed by Vinay.

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| 20 | Find the image of the point (1,2,1) with respect to the line $\frac{x-3}{1} = \frac{y+1}{2} = \frac{z-1}{3}$. Also find the equation of the line joining the given point and its image. | 5 | Critical Thinking and Problem Solving |

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

Subject: Physics   **Assignment No.: 8**
Allotment Date: 31January 2026   **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	ASSERTION REASON BASED QUESTION • Assertion the diamegnetic substances have unpaired number of electron? Reason : inside diamagnetic number of vacant dorbitals can have	1	Understanding based question
10	• 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	• 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 and inductor and a capacitor c and registers Rare are connected with the 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 neil bhore and how can you justify the lyman series and Pasha nseries 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 distance 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   **Assignment No.: 8**
Allotment Date: 31January 2026   **Marks: 20+20=40**

PART I
BASIC(GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	1. A disaccharide is formed when two monosaccharides are bonded together by a bond. a) glycosidic b) peptide c) ionic d) phosphodiester . 2. Sucrose is a _____ chemical, and the hydrolysis product combination is _____in nature. a) dextrorotatory; dextrorotatory b) laevorotatory; laevorotatory c) laevorotatory; dextrorotatory d) dextrorotatory; laevorotatory 3. Which of the following statements about maltose is incorrect? 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 4. Which of the following statements about starch is incorrect? 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 5. RNA lacks the nitrogen base of _____ a) Thymine b) Cytosine c) Uracil d) Adenine	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	2	Understanding

	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. 1. Assertion : D(+)– Glucose is dextrorotatory in nature. Reason : 'D' represents its dextrorotatory nature. Answer 2. Assertion : Sucrose is called an invert sugar. Reason : On hydrolysis, sucrose bring the change in the sign of rotation from dextro (+) to laevo(−).		
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
	PART II **STANDARD(COMPETENCY BASED QUESTIONS)**		
1	1. Lysine is an example of a polar but uncharged amino acid, a) Serine b) Aspartate c) Lysine d) Arginine 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 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 . 4. How can we make an amine from an amino acid? a) Addition of carbon dioxide	1X5=5	Understanding

	b) Removal of ammonia c) Addition of ammonia d) Removal of carbon dioxide 5. When converting a disaccharide to monosaccharides, which bond is hydrolyzed? a) Disulfide bond b) Glycosidic bond c) Phosphodiester bond d) Hydrogen bond		
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. 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. 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	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

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Subject: Biology   **Assignment No.: 8**
Allotment Date: 31January 2026   **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 • 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	• Assertion: Geitonogamy is genetically similar to autogamy.	1	Real life application based on CBQ

	• Reason: Pollen from one flower to another on the same plant		
11	• 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., Mirabilis jalapa). Show a cross and explain the F2 phenotypic/genotypic ratios.	5	Analytical skill based CBQ

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

Subject: Accountancy   **Assignment No.: 8**
Allotment Date: 31January 2026   **Marks: 20+20=40**

PART I
BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1	Renu, Trilok and Mansi were partners in a firm sharing profits and losses in the ratio of 9 : 6 : 5. Hina was admitted as a partner for 1/10th share in the profits which she acquired equally from Renu and Trilok. The new profit sharing ratio after Hina's admission will be : (A) 5 : 5 : 2 : 8 (B) 5 : 5 : 8 : 2 (C) 8 : 2 : 5 : 5 (D) 8 : 5 : 5 : 2	1	Concept knowledge
2	Nikhil and Sharat were partners in a firm sharing profits and losses in the ratio of 4 : 3. Nikhil withdrew ₹ 6,000 on the first day of every quarter for the year ended 31st March, 2023. Interest on drawings is to be charged @ 5% p.a. Interest on Nikhil's drawings will be calculated for : (A) 6 months (B) 4.5 months (C) 7.5 months (D) 3 months	1	Computation and concept knowledge
3	Kamini, Lata and Meera were partners in a firm sharing profits and losses equally. Neel was admitted as a new partner for an equal share in the profits of the firm. Neel brought his share of capital and premium for goodwill in cash. On the date of admission of Neel, goodwill appeared in the books at ₹ 1,20,000. The existing goodwill is to be written off among : (A) Old partners in old ratio. (B) New partners in new ratio. (C) Sacrificing partners in sacrificing ratio. (D) Old partners in sacrificing ratio.	1	Concept knowledge
4	The amount of share capital which a company is authorised to issue by its Memorandum of Association is called : (A) Issued capital (B) Subscribed capital (C) Reserve capital (D) Nominal capital	1	Knowledge
5	There are two statements Assertion (A) and Reason (R) : *Assertion (A) :* Court does not intervene in case of dissolution of partnership.	1	Understanding

	Reason (R) : Dissolution of partnership takes place by mutual agreement among partners. Choose the correct option from the following : (A) Both Assertion (A) and Reason (R) are correct, but Reason (R) is *not* the correct explanation of Assertion (A). (B) Both Assertion (A) and Reason (R) are correct and Reason (R) is the correct explanation of Assertion (A). (C) Assertion (A) is correct, but Reason (R) is incorrect. (D) Assertion (A) is incorrect, but Reason (R) is correct.				
6	Those debentures where a charge is created on the assets of the company for the purpose of payment in case of default are known as : (A) Secured Debentures (B) Registered Debentures (C) Specific Coupon Rate Debentures (D) Redeemable Debentures		**1**		Knowledge and computation
7	Which of the following transactions will result in cash outflow from operating activities ? (A) Payment to creditors (B) Proceeds from sale of investments (C) Dividend received by a non-finance company (D) Depreciation charged on furniture		**1**		knowledge
8	Gita, Hina and Isha were partners in a firm sharing profits and losses in the ratio of 3 : 3 : 2. Gita died. Hina and Isha decided to share profits and losses in the future, equally. On the day of Gita's death, goodwill of the firm was valued at ₹ 8,00,000. Calculate gaining ratio and pass necessary journal entry to record treatment of goodwill on Gita's death. Or X Ltd. has a Current ratio of 3·5 : 1 and Quick ratio of 2 : 1. If excess of Current Assets over Quick Assets is represented by inventories of ₹ 16,000 and prepaid expenses of ₹ 8,000, calculate : (a) Current Liabilities (b) Current Assets (c) Quick Assets		**3**		Analysis and computation
9	From the following particulars of Accent Ltd., prepare a Comparative Statement of Profit and Loss for the year ended 31st March, 2023 :		**4**		Understanding, computation and analysis

Particulars	Note No.	2022 – 23 (₹)	2021 (₹
Revenue from operations		25,00,000	20,0
Employee benefit expenses		5,00,000	4,0
Other expenses		2,50,000	2,0
Tax rate 50%			

10	Trisha, Urvi and Varsha were partners in a firm sharing profits and losses in the ratio of 5 : 4 : 1. Their Balance Sheet as at 31st March, 2023 was as follows :	6

Balance Sheet of Trisha, Urvi and Varsha as at 31st March, 2023

Liabilities		Amount (₹)	Assets	Am (
Capitals :			Fixed Assets	4,0
Trisha	2,00,000		Stock	1,0
Urvi	1,30,000		Debtors	1,5
Varsha	1,00,000	4,30,000	Cash	2,0
General Reserve		1,50,000		
Creditors		2,70,000		
		8,50,000		8,5

Trisha retired on 1st April, 2023 and the partners agreed to the following terms :

(i) Fixed Assets were found overvalued by ₹ 80,000.

(ii) Stock was taken over by Trisha at ₹80,000.

(iii) Goodwill of the firm was valued at ₹ 1,00,000 on Trisha's retirement and Trisha's share by goodwill was adjusted through the Capital Accounts of remaining partners.

(iv) New profit sharing ratio between the remaining partners was agreed at 2 : 3.

(v) Trisha was paid ₹ 50,000 on retirement and the balance was transferred to her loan account.

Pass necessary journal entries in the books of the firm on Trisha's retirement.

<div align="center">Or</div>

From the following particulars of Ruparel Ltd., calculate 'Cash Flow from Investing Activities'. Show your working clearly.

Particulars	31.03.2023 (₹)	31.03.2 (₹)
Goodwill	3,00,000	1,00
Patents	1,60,000	2,80
Machinery	12,40,000	10,20
10% Investments	1,60,000	60

Additional Information :

		Understanding, analysis and computation

	(i) Patents of ₹1,20,000 were sold at book value. (ii) Depreciation charged during the year on machinery was ₹ 1,40,000. A machine having a book value of ₹ 80,000 was sold for ₹50,000. (iii) On 31.03.2023, 10% investments were purchased for ₹ 1,80,000 and some investments were sold at a profit of ₹ 20,000. Interest received on investments was ₹ 6,000.		

PART II
STANDARD (COMPETENCY BASED QUESTIONS)

1	Pawan, Kavita and Gaurav were partners in a firm. The firm was dissolved. Creditors took over furniture of book value of ₹ 60,000 at 10% less than the book value in part settlement of their amount of ₹ 60,000. The balance amount was paid to them through cheque. The amount paid through cheque will be : (A) ₹ 5,000 (B) ₹ 6,000 (C) ₹ 54,000 (D) Nil	**1**	Concept knowledge and computation
2	Arjun, Babita and Charlie were partners in a firm sharing profits in the ratio of 2 : 2 : 1. They admitted Dheeraj for $1/5^{th}$ share in the profits of the firm. He has to contribute proportionate capital to acquire $1/5^{th}$ share in future profits. On the date of admission, the capitals after all adjustments relating to goodwill and revaluation of assets and liabilities, were : Arjun ₹ 62,000, Babita ₹52,000 and Charlie ₹36,000. The capital brought by Dheeraj will be (A) ₹ 37,500 (B) ₹ 30,000 (C) ₹ 32,500 (D) ₹ 35,000	**1**	In depth knowledge
3	Beeta Ltd. offered for subscription 1,00,000 equity shares of ₹ 10 each at a premium of 100% payable entirely on application. Applications were received for 5,00,000 equity shares. The company decided to allot the shares on pro-rata basis to all the applicants. The amount received by the company on application was : (A) ₹ 1,00,00,000 (B) ₹ 20,00,000 (C) ₹ 1,20,00,000 (D) ₹ 80,00,000	**1**	Concept knowledge and computation
4	Sinoy Ltd. issued 20,000 shares of ₹ 10 each at a premium of ₹ 6. The amount was payable as follows : On Application – ₹ 7 per share(Including Premium ₹ 1 per share) On Allotment – ₹ 5 per share (Including Premium ₹ 2 per share) On First and Final call – Balance The issue was fully subscribed. All the money was duly received except the allotment and first and final call on 1,000 shares. These shares were forfeited. On forfeiture of these shares, the 'Securities Premium Account' will be debited by : (A) ₹ 2,000	**1**	Understanding and Analysis

	(B) ₹ 3,000 (C) ₹ 5,000 (D) ₹ 20,000		
5	Nagar Ltd. issued 6,000, 11% Debentures of ₹ 100 each at a discount of 10% redeemable at a premium. 'Discount on issue of debentures' and 'Premium on redemption of debentures' were accounted for through 'Loss on issue of debentures account'. If the amount of 'Loss on issue of debentures' was ₹90,000, then the amount of premium on redemption of debentures was : (A) ₹ 60,000 (B) ₹ 90,000 (C) ₹ 1,20,000 (D) ₹ 30,000	1	Understanding and Analysis
6	Som, Pam and Ron were partners in a firm sharing profits in the ratio of 7 : 2 : 1. With effect from 1st April, 2023 they decided to change their profit sharing ratio to 1 : 2 : 7. There existed a Credit Balance in the Profit and Loss Account of ₹ 1,00,000 on the date of change in profit sharing ratio in the books of the firm. The partners decided to retain the Credit Balance in Profit and Loss Account in the books. The adjustment entry will be :	1	Critical thinking and problem solving

Journal		Dr. Amount (₹)	Cr. Am (₹)
(A)	Ron's Capital A/c Dr.	20,000	
	To Som's Capital A/c		2
(B)	Ron's Capital A/c Dr.	60,000	
	To Som's Capital A/c		6
(C)	Som's Capital A/c Dr.	20,000	
	To Ron's Capital A/c		2
(D)	Som's Capital A/c Dr.	60,000	
	To Ron's Capital A/c		6

7	The Quick Ratio of a company is 1 : 1. Which of the following transactions will result in increase of this ratio ? (A) Purchase of inventory ₹1,50,000 through cheque (B) Sold inventory on credit ₹ 50,000 (C) Outstanding expenses of ₹ 40,000 paid (D) Machinery purchased for cash ₹50,000	1	Problem solving strategies
8	Sheetal Ltd. purchased building worth ₹ 2,n0,000, plant and machinery worth ₹ 2,00,000, furniture worth ₹ 40,000 and took over liabilities of ₹ 30,000 from Poonam Ltd. for a purchase consideration of ₹ 4,40,000. The purchase consideration was paid by issuing 12% Debentures of ₹ 100 each	3	Abstract thinking and computation

9	Shringar Ltd. was registered with an authorised capital of ₹ 5,00,000 divided into equity shares of ₹ 10 each. The company issued a prospectus inviting applications for 20,000 equity shares. The amount was payable as follows : On Application – ₹ 3 per share On Allotment – ₹ 5 per share On First and Final call – Balance Applications were received for 19,000 equity shares and allotment was made to all the applicants. All the amounts were duly received except the first and final call on 5,000 shares. Present the share capital in the Company's Balance Sheet as per Schedule III, Part I of Companies Act, 2013. Also prepare 'Notes to Accounts' for the same. Or Sonia and Rohit were partners in a firm sharing profits and losses in the ratio of 3 : 2. On 31st March, 2023 their Balance Sheet was as follows : **Balance Sheet of Sonia and Rohitas at 31st March, 2023**	**4**	Attention to detail and computation

Liabilities		Amount (₹)	Assets	Am
Capitals :			Building	2,0
Sonia	70,000		Machinery	1,4
Rohit	90,000	1,60,000	Furniture	8
General Reserve		80,000	Debtors	1,2
Sonia's Loan		1,30,000	Stock	6
Bank Loan		2,20,000	Cash at Bank	6
Creditors		70,000		
		6,60,000		6,6

The firm was dissolved on the above date on the following terms :
(i) Building, machinery and furniture realised ₹ 3,44,000.
(ii) Debtors realised 90% only.
(iii) Creditors took away half of the stock in full settlement of their account.
(iv) Remaining stock realised ₹ 72,000.
(v) Realisation expenses amounting to ₹14,000 were paid by Rohit.
Prepare Realisation Account.

10	Pankaj, Rajat and Samay were partners in a firm sharing profits and losses in the ratio of 7 : 2 : 1. Their Balance Sheet as at 31st March, 2023 was as follows : **Balance Sheet of Pankaj, Rajat and Samay as at 31st March, 2023**	**6**	Attention to detail and computation

Liabilities		Amount (₹)	Assets	Am
Capitals :			Machinery	2,I
Pankaj	3,00,000		Furniture	1,0
Rajat	2,00,000		Stock	1,5
Samay	1,00,000	6,00,000	Debtors	1,6
General Reserve		1,00,000	Bank	2,5
Creditors		1,70,000		
		8,70,000		8,7

Rajat died on 30th June, 2023. It was agreed between his executors and remaining partners that :

(i) Goodwill be valued at two years purchase of average profits of the
previous four years which were ₹ 5,00,000.

(ii) Share of profit up to the date of death will be on the calculated on the basis of average profits of the past four years. Rajat's share of profit amounted to ₹25,000.

(iii) Interest on capital is to be provided @ 10% p.a.

(iv) Half the amount due to Rajat is to be paid immediately.

Prepare Rajat's Capital Account and Rajat's Executor's Account as on
30th June, 2023.

Or

Diamond Ltd. issued a prospectus inviting applications for 20,000 shares
of ₹10 each. The amount was payable as follows :

On Application – ₹4 per share

On Allotment – ₹4 per share

On First and Final call– Balance

Applications for 45,000 shares were received and allotment was made as
follows :

Category (i) – Applicants for 35,000 shares were allotted 15,000 shares.

Category (ii) – Applicants for 10,000 shares were allotted 5,000 shares.

It was decided that excess money received on application be adjusted
towards sum due on allotment and calls.

Amar, an applicant of Category (ii), who was allotted 500 shares, failed to
pay the first and final call. His shares were forfeited and subsequently
reissued at ₹ 2 per share as fully paid up.

Pass necessary journal entries to record the above transactions in the books of Diamond Ltd.

Subject: Business Studies   **Assignment No.: 8**
Allotment Date: 31January 2026   **Marks: 20+20=40**

PART I
BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1.	Aparna and Priyanka are working in 'Shreya Industries', a company dealing in readymade garments for women. Each of them was assigned the responsibility of producing 10 dresses each within 5 days at a cost of ₹ 1,000 per dress. Aparna was able to produce 10 dresses at a cost of ₹ 1,100 per dress within 5 days, whereas Priyanka was able to produce only 8 dresses at a cost of ₹ 900 per dress in 5 days. Which of the following statements is correct with respect to the above ? (A) Aparna is efficient but Priyanka is effective. (B) Aparna is effective but Priyanka is efficient. (C) Both Aparna and Priyanka are effective. (D) Both Aparna and Priyanka are efficient.	1	Identifying
2.	Which of the following is *not* a function of middle level management ? (A) To interpret the policies framed by the top management (B) To ensure that their department has the necessary personnel (C) To coordinate the activities of different departments (D) To assign necessary duties and responsibilities to the personnel in their departments	1	Remembering
3.	'If there is a fixed place for everything and it is present there, then there will be no hindrance in the activities of business/factory.' The principle of management that is highlighted in the above statement is : (A) Discipline (B) Order (C) Unity of direction (D) Esprit de corps	1	Understanding
4.	The purpose of the principle of 'unity of command' is that : (A) It avoids dual subordination. (B) It subordinates individual interests to organizational interests. (C) It promotes a team spirit of unity and harmony among employees. (D) It concentrates decision-making authority at the top level.	1	Critical thinking
5.	Techpack Ltd. is a company in Hyderabad that produces and sells packaging material to various industries across the nation in a B2B e-business form. It is a dynamic company. Over the years, due to rising concerns for climate change and shift of preferences of Indian customers towards environment-friendly products, the company has shifted to the production of biodegradable packaging material. Moreover, due to its digital transformation, the company has tremendously benefited as its customers could place orders and make	1	Critical thinking

	cashless payments in various online modes. The dimensions of business environment discussed in the above case are : (A) Economic and social environments (B) Social and technological environments (C) Technological and economic environments (D) Social and political environments		
6	Read the following statements : Assertion (A) and Reason (R). Choose the correct alternative from the options given below : *Assertion (A) :* While taking dividend decision, the extent of retained earnings also influences the financing decision of the firm. *Reason (R) :* The firm does not require funds to the extent of re-invested retained earnings. (A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A). (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is *not* the correct explanation of Assertion (A). (C) Assertion (A) is true, but Reason (R) is false. (D) Assertion (A) is false, but Reason (R) is true.	1	Identifying
7	Ashok Industries Ltd. is a company manufacturing components for automobile industries. In this company, standards have been set for every manufacturing activity including standardisation of process, raw material, time, product, machinery and methods which must be adhered to during production. This has been done to bring excellence in quality of the materials produced. The foreman of the company, Mehra, has designed the jobs of the workers in such a manner that unnecessary movements are eliminated and it takes less time to complete the jobs efficiently. He has also scientifically analysed the duration and frequency of rest intervals that should be provided to the workers in the factory so that they can regain stamina and work efficiently. Out of the following, which technique of scientific management has *not* been discussed in the above paragraph ? (A) Fatigue study (B) Method study (C) Motion study (D) Standardisatrion and simplification	1	Knowledge
8	(a) Explain 'Democratic (ParticipativeN style of leadership'. **OR** (b) 'An intelligent manager should make use of positive aspects of informal channels and minimise the use of negative aspects of this channel of communication.' In the light of the above statement, explain any one positive and any two negative aspects of informal channels of communication.	3	Reasoning and understanding
9.	(a) Explain any four points of importance of 'Controlling' function of management. **OR** (b) Explain the relationship between 'Planning' and 'Controlling' with the help of any four points.	4	Remembering
10	(a) Explain with the help of any four points why planning is important in an organization. **OR** (b) 'Effective delegation of authority leads to many benefits.' Explain the above statement with the help of any four points.	6	Remembering
	PART II **STANDARD (COMPETENCY BASED QUESTIONS)**		

1.	Which of the following options denotes the correct sequence of steps in the process of 'Organizing' function of management ? (A) Departmentalisation -->Identification and division of work -->Establishing authority and reporting relationships -->Assignment of duties (B) Departmentalisation -->Identification and division of work -->Assignment of duties -->Establishing authority and reporting relationships (C) Identification and division of work -->Establishing authority and reporting relationships -->Assignment of duties -->Departmentalisation (D) Identification and division of work -->Departmentalisation -->Assignment of duties -->Establishing authority and reporting relationships	**1**	In depth knowledge
2.	*Statement I :* As per the Consumer Protection Act, 2019, the District Commission has a jurisdiction to entertain complaints where value of goods or services paid as consideration does not exceed ₹ 10 crores. *Statement II :* If any of the parties is not satisfied by the order of the District Commission, they can appeal against such order to the State Commission on the grounds of facts or law within a period of forty-five days from the date of order. Choose the correct option from the following : (A) Statement I is true and Statement II is false. (B) Statement II is true and Statement I is false. (C) Both the Statements are true. (D) Both the Statements are false.	**1**	Attention to detail
3.	'V.K. Public School' had a vacancy for an English teacher for Class XII. After preliminary screening of the applications, they shortlisted 10 candidates. Now, the school management asked the candidates to give a demonstration lesson related to the curriculum of Class XII. The purpose of these demonstration lessons was to measure the existing teaching skills of the candidates and proficiency in the area of profession. Identify the type of selection test used by 'V.K. Public School' in the above case : (A) Aptitude test (B) Intelligence test (C) Trade test (D) Personality test	**1**	Analysis and understanding
4.	*Statement I :* Shareholders' funds involve commitment regarding the payment of returns or the repayment of capital. *Statement II :* Debt is considered to be the cheapest of all the sources of funds and tax deductability of interest makes it still cheaper. Choose the correct option from the following : (A) Statement I is true and Statement II is false. (B) Statement II is true and Statement I is false. (C) Both the Statements are true. (D) Both the Statements are false.	**1**	Logical reasoning
5.	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	**1**	Logical reasoning

	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)		
6.	Prashant started a grocery retail business. Due to increasing popularity of online shopping, the degree of competition is very high in this business. His requirement of working capital will be high as he would have to hold larger stocks of finished goods to meet urgent orders from customers. The factor affecting the requirement of working capital is : (A) Availability of raw material (B) Scale of operations (C) Level of competition (D) Inflation	**1**	Understanding and application
7.	In T-pex Ltd, a company trading in stationery items, it was decided that all purchases would be made from AK Ltd. on credit basis with credit period of at least 7 days. This was done because no other company was offering credit facility. Which type of plan has been referred to in the above paragraph ? (A) Rule (B) Policy (C) Method (D) Strategy	**1**	Critical thinking
8.	A popular magazine published an article on job cuts across the globe. It stated that due to reasons like cost cutting, market conditions and technological advancement, almost two lakh people in the IT sector have lost their jobs during the last year. This was read and discussed by employees of Techwire Ltd. a software development company in India. It created a lot of unrest among them and their morale came down. The productivity of the employees started declining. The Chief Executive Officer of the company observed the insecurity among the staff about their jobs. Understanding his role as the leader, he wrote an e-mail to all the employees assuring them about the stability of their future income and job. This communication gave the employees psychological and emotional satisfaction and showed positive results in terms of their performance. The Chief Executive Officer was able to make the subordinates act in a desired manner to achieve the organizational goals, without giving them any monetary incentives.	**3**	Critical Thinking and understanding

	(i) Identify and explain the incentive used by the Chief Executive Officer to improve the performance of the employees. (ii) State the need of the employees as per Maslow's Hierarchy of Needs theory which was satisfied in the above case.		
9.	Anmol Pathak, a restaurant owner, observed that over a period of one year, the costs of raw material, transportation and packaging had increased. As a result the total cost had increased by 15%. He thought that it was not easy to keep a check on each and every activity in the organisation, so he decided to study deeply the increase in these three costs. He prepared a table of acceptable and actual increase in cost as given below : | S.No.	Expense	Acceptable increase in cost	Actual increase in cost
1.	Raw material	4%	7%
2.	Transportation	10%	8%
3.	Packaging	10%	20% | Explain the two concepts related to a function of management that will be used by Anmol Pathak to analyse the deviations. Or Silk Ltd. had an EPS of ₹ 1. It raised a loan of ₹ 10 lakhs at an interest rate of 10% p.a. from a bank. After one year, the results were as follows : | Details	Amount
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Equity (Shareholders' Funds) (2,00,000 shares of ₹ 10 each)	₹ 20 Lakh
10% Loan	₹ 10 Lakh
Earning Before Interest and Tax (EBIT)	₹ 6 Lakh
Earning Per Share (EPS)	₹ 2 | Tax rate 20%. (i) Why did EPS in Silk Ltd. rise with the use of debt ? (ii) If EBIT of the company would have been ₹ 3 lakh, would using debt still be favourable for the company ? Explain.	4	In depth knowledge
10	BJ Pvt. Ltd. is a company manufacturing organic shampoos with the brand name 'Pure Shine'. This name will help the company in creating product differentiation. To satisfy the needs of the customers in the target market the company used natural ingredients like curry leaves, neem, rice, etc. The focus of the company is on satisfaction of customers needs. To have higher demand of shampoo it decided to fix a lower price in comparison to the other shampoos available in the market. To inform the customers about the shampoo and its features etc., the company used various promotional tools. For maximum satisfaction of customers, the company provides the contact details of the customer care centre to handle customer complaints. Identify and explain any three functions of marketing discussed in the above paragraph. Or 'Health Relax Ltd.' is one of India's leading consumer healthcare brands in diagnostic services. It has an integrated nationwide network of diagnostic centers. The company was exploring new avenues for its expansion. The top level managers analysed the business environment and found that since the year 2023 was the International	6	

Year of Millets, it was expected that the global demand for millets will grow by around 5% annually. India being one of the leading producer and exporter of millets, it was realised that there was a great business opportunity in the millet industry. The Board of Directors approved the idea of venturing into the business of selling bread, noodles and dosa mix made of millets.

The company had to restructure itself. It diversified into varied product categories and created a structure comprising of separate business units. Each unit had a manager responsible for performance who had authority over the unit. Manpower was grouped on the basis of different products manufactured.

(i) Identify the type of organizational structure of Health Relax Ltd. after restructuring and give its meaning.

(ii) Explain any two advantages and two disadvantages of the type of organisational structure identified in the above case.

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Subject: Economics **Assignment No.: 8**
Allotment Date: 31January 2026 **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×1/ CRR (c) Cash x CRR (d) None of these	1	Interdisciplinary

7	Which one is true? (a) Bank rate is a rate at which Central Bank is ready to give credit to commercial banks (b) Bank rate and interest rates are different (c) Bank rate is the discount rate of the Central Bank (d) All the above	**1**	Understanding
8	The government of an economy increased tax rates and reduced public expenditure during a period of high inflation. **Questions:** (a) Identify the type of fiscal policy adopted by the government. (b) Explain one objective of adopting this policy. (c) State one possible effect of this policy on aggregate demand.	**3**	Calculation Skills
9	The revenue deficit of a country is continuously rising over the years. **(a)** Explain the meaning of revenue deficit. **(b)** Analyse its impact on capital formation and future economic growth. **(c)** Suggest one measure to reduce revenue deficit.	**4**	Understanding/Analyse
10	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. **On the basis of the above situation, answer the following:** (a) Explain the process of **credit creation by commercial banks** with the help of an example. (3 marks) (b) Identify and explain **any two quantitative measures** that the RBI can use to control inflation by regulating bank credit. (3 marks)	**6**	Problem Solving
	PART II **STANDARD (COMPETENCY BASED QUESTIONS)**		
1	Assertion (A)-settlement of liabilities of commercial banks is done by RBI. Reason (R)- RBI holds the accounts of all commercial banks and commercial banks keep funds in it essentially. (a) both (A) & (R) both are true and (R) is correct explanation of (A)	**1**	HOT

	(b) both (A) & (R) both are true and (R) is not correct explanation of (A) (c) (A) is true but (R) is false (d) (A) is false but (R) is true		
2	Assertion (A)-Governor of RBI gives advises to central government regarding about tax, expenditure related decisions. Reason (R)- it is essential for the government to follow the advises of RBI. (a) both (A) & (R) both are true and (R) is correct explanation of (A) (b) both (A) & (R) both are true and (R) is not correct explanation of (A) (c) (A) is true but (R) is false (d) (A) is false but (R) is true	1	Interdisciplinary
3	Which is not a quantitative method of credit control? (a) Bank Rate (b) Moral Suasion (c) Open Market Operations (d) Change in CRR	1	Critical Thinking and Problem Solving
4	Every bank is required to maintain a fixed percentage of its assets in the form of cash is called: (a) Cash Reserve Ratio (b) Statutory Liquidity Ratio (c) Both (a) and (b) (d) None of the above	1	Critical Thinking
5	The fiscal deficit is the difference between the government's total expenditure and its total receipts excluding _____ (a) Interest (b) Taxes (c) Spending (d) Borrowings	1	Analytical Thinking
6	The amount collected by the government as taxes and duties is known as _____ (a) Capital receipts (b) Tax revenue receipts (c) Non-tax revenue receipts (d) All of these	1	Logical Reasoning
7	The primary deficit in a government budget will be zero, when _____ (a) Revenue deficit is zero (b) Net interest payments are zero (c) Fiscal deficit is zero (d) Fiscal deficit is equal to interest payment	1	Reasoning
8	**CASE STUDY -** • Read the following case study paragraph carefully and answer the questions on the basis of the same. 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	3	Critical Thinking and Problem solving

	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, this indicates moderation from 7.2% at the same time last year. 1. How does increase in deposits with commercial banks will affect credit creation process ? a) Credit creation process will increase b) Credit creation process will remain unaffected c) Credit creation process will reduce d) None of above 2. M3 is consist of:- a) C +OD + Time deposits b) C + DD + OD + time deposits c) M1 + deposits of post office saving bank d) All of above 3. What is indicated by increasing deposits? 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		
9	A government facing an economic slowdown decides to increase its expenditure on infrastructure while keeping tax rates unchanged. **(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.	**4**	Critical Thinking skill
10	**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. **Questions:** (a) Define *government budget*. (1 mark) (b) State any **two objectives** of a government	**6**	Evaluation Skill/Problem Solving

	budget. (2 marks) (c) Explain the meaning of *fiscal deficit*. (2 marks) (d) State **one implication** of a high fiscal deficit for the economy. (1 mark)		

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

Subject: History   **Assignment No.: 8**
Allotment Date: 31January 2026   **Marks: 20+20=40**

PART I
BASIC (GENERAL QUESTIONS)

S. NO.	QUESTIONS	MARKS	NATURE
1.	**PART-A** i. Which among the following is not a notable artefact found in Mohenjodaro site? (A) Dancing Girl (B) Dockyard (C) Pashupati-seal (D) Priest-King ii. Who was the first ruler to inscribe his messages to his subjects and officials on stone surfaces – natural rocks as well as polished pillars? (A) Kanishka (B) Bimbisara (C) Chandra Gupta Maurya (D) Ashoka iii. Which was the most important tank built in the early years of the fifteenth century? (A) Hiriya canal (B) Kamalapuram tank (C) Tungabhadra Tank (D) Both (A) and (B) iv. Match the following: List-I List-II (i) Manucci (a) Samarqand (ii) Jean Baptist Tavernier (b) Italy (iii) Duarte Barbosa (c) France (iv) Abdur Razzak (d) Portuguese **Options:** (i) (ii) (iii) (iv) (A) (b) (c) (d) (a) (B) (a) (d) (c) (b) (C) (d) (a) (b) (c) (D) (c) (b) (a) (d) v. On Gokhale's advice, Gandhiji spent a year traveling around British India, getting to know the land and its peoples.	1x6=6	Remembering

		In the year 1916, He made His first major public appearance at the opening of the .... University. (A) Jawahar Lal Nehru (B) Calcutta (C) Banaras Hindu (D) Delhi vi. Which leader among the following demanded separate electorates where he mentioned that separate electorates for Muslims would ensure their electorates? (A) Abul kalam Azad (B) Mohamad Ali Jinnah (C) B. Pocker Bahadur (D) B. N. Rau		
2.		**PART-B** *Answer in short:* Why do archaeologists and historians find the Harappan script author enigmatic? Explain reasons.	**3**	Understanding
3.		**PART-C** *Answer in detail:* 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. OR Analyze with illustrations why Bhakti and Sufi thinkers adopted a variety of languages in which to express their opinions.	**8**	Applying

4.		**PART-D**
		Map Question:
		
		On a political map of India, locate and mark the following:
		  a) The place where Gandhiji ended the Salt March.
		  b) A pre-Indus Valley Civilisation Settlement in Haryana.
		  c) Tirunelveli
			3	Identifying

		PART II **STANDARD (COMPETENCY BASED QUESTIONS)**		
1.		**PART-A** *Objective Type Questions:* 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	**1x4=4**	Applying Knowledge

luxuries if they were rare or made from costly, nonlocal materials or with complicated technologies.

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.

ii. Magadha was the most powerful Mahajanapada from sixth to fourth century BCE. Historians offered different kinds of explanations for the growth of Magadha. Which of the following statement is incorrect regarding the growth of Magadha?
(A) Magadha was a region where agriculture was especially productive.
(B) Iron mines were accessible and provided resources for tools and weapons.
(C) Magadha's proximity to the sea makes it a business hub. Many foreign traders used to come here for trading purposes. (D) Elephants, an important component of the army, were found in forests in the region

iii. Which of the following statement(s) is/are correct according to the rules of Vijayanagara Empire?
(a) The Vijayanagara kings competed with contemporary rulers on their northern frontier including the sultans of the Deccan and Gajapati rulers of Orissa for fertile river valleys and resources.
(b) The rulers of Vijayanagara borrowed concepts and building techniques which they then developed further.
(c) Ruling elites in these areas had extended patronage to elaborate temples such as the Brihadishvara temple at Thanjavur and the Chennakeshava temple at Belur.
(d) The rulers of Vijayanagara, who called themselves piyadassi, built on these traditions and carried them, as we will see, literally to new heights.
Which of the following statement(s) is/are correct?
(A) a, b, d
(B) a, b, c
(C) b, c, d
(D) All of the above.

iv. Match the following:
List-I   List-II
(i) Delhi   (a) Birjis Qadr
(ii) Kanpur   (b) Kunwar Singh
(iii) Arrah   (c) Bahadur Shah
(iv) Lucknow   (d) Nana Sahib
Options: (i) (ii) (iii) (iv)
(A)   (b) (c) (a) (d)
(B)   (c) (d) (b) (a)
(C)   (a) (b) (c) (d)
(D)   (d) (b) (c) (a)

2.	**PART-B** *Answer in short:* Analyse how changes in coin materials, weight standards, and inscriptions from the 6th century B.C. onwards indicate political transitions and regional diversity.	**3**	Creating
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.	**PART-C** *Answer in detail:* Critically examine the role of Zamindars in agrarian conflicts and peasant resistance in the 16th and 17th centuries. OR "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."	**8**	(HOT) Analytically Evaluating & Synthesizing
5.	**PART-D** ***Sources Based Question:*** Read the following extract carefully and answer the questions that follow: *"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."* **Questions:-** i. In your view, why did Govind Vallabh Pant lay greater stress on the art of self-discipline? Substantiate your opinion with arguments. ii. 'In Democracies one should care less for himself and more for others.' Give your views on this philosophy	**2x1=2**	Application and understanding Based

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

Subject: Political Science **Assignment No.: 8**
Allotment Date: 31January 2026 **Marks: 20+20=40**

PART I
BASIC (GENERAL BASED QUESTION)

S. NO.	QUESTIONS	MARKS	NATURE
1	**MCQ BASED QUESTION:** **(i) How many countries are currently in NATO?** (a) 39 (b) 45 (c) 30 (d) 15 **(ii) Which two countries resisted the Maastricht Treaty?** (a) Denmark & Britain (b) France & USA (c) Denmark & Sweden (d) Germany & Spain **OR** **(iii) The ASEAN motto is:** (a) "One Nation, One Vision" (b) "One Vision, One Identity, One Community" (c) "Asian Unity" (d) "Stronger Together" **(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 **OR** **(v) Which international agreement focuses on climate change?** (a) Paris Agreement (2015) (b) Kyoto Protocol (1992) (c) NAFTA (d) Montreal Agreement (2005) **(vi) Which of the following is NOT a principal organ of the United Nations?**	(4x1=4)	Information

	(a) General Assembly (b) Security Council (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	**(1X2=2)**	CBQ Information

	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): Globalization reduces state capacity.
	   Reason (R): The market takes over the role of the government in determining economic and social priorities.
	(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.
			Real life application
			Based on CBQ
			Understanding Based CBQ

7	**VERY SHORT ANSWER QUESTION** Why are international organisations like the UN required? **OR** How is balance of power a component of traditional security? **OR** Why should the 'environmental concerns' be part of contemporary global politics?	**2**	Application based CBQ Real life relevance based CBQ Understanding based CBQ
8	**SHORT ANSWER QUESTION** What steps should be taken to strengthen the ASEAN in the international community? **OR** Explain the steps taken by Governments of India to curb the emission of greenhouse gases. Assess the role of the United Nations as the most important international organisation.	**4** **4**	Critical thinking based Question Evaluation based CBQ
9	**Study the cartoon carefully and answer the questions that follow**: **Questions:** (i) What does this cartoon illustrate? (ii) What is meant by the title 'Yesterday'? (iii) What does the title 'Today' signify?	**(1+1+2=4)**	Critical and Analytical thinking

| 10 | **LONG ANSWER QUESTION**
Describe the factors that make most of the former Soviet Republics prone to conflicts and threats.
OR
Explain the role of emerging alternative centres of power in transforming the different countries into prosperous economies. | **6** | Analytical Skill based CBQ |

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

Subject: Physical Education   Assignment No.: 8
Allotment Date: 31January 2026   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.: 8**
Allotment Date: 31January 2026   **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 li e." 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 o such.	4	Understanding/Analyse
10	As a student o class 12, you wish to score very high marks in your board exams. You start planning or the same by a ending classes regularly, taking notes, studying extra books etc. idem y and explain the theory o intelligence which includes planning as an Essen al	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.	1	Evaluation

	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.		
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

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Subject: Painting   Assignment No.: 8
Allotment Date: 31January 2026   Marks: 20+20=40
Allotment Date: 30 January 2026   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.: 8**
Allotment Date: 31January 2026 **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	1	Interdisciplinary

	(c) Left (b) Right (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

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Subject: Health and Physical Education   **Assignment No.: 8**
Allotment Date: 31January 2026   **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 above4 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) What is the weight of the shot put used in men's track and field? i)6kg ii) 7.26kg iii) 10kg iv) 12kg	Informaton	
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		

Subject: Computer Science   **Assignment No.: 8**
Allotment Date: 31January 2026   **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	Network device that sends the data over optimizing paths through connected hops is .... a) Hub b) Router c) Bridge d) Gateway		Remembering
6	Which device filters data packets and only sends to those that require the data? a) Router b) Switch c) Hub d) Bridge	1	Evaluation
7	The protocol suit that is the main communication protocol over the Internet: a) HTTP b) FTP c) TCP/IP d) PPP	1	Evaluation
8	IMAP stands for : a) Internet Message Access Protocol b) Internetwork Mapping Access Protocol c) Internet Mapping Add Protocol d) Internetwork Message Added Protocol	1	Understanding/ Analyse
9	IMAP protocol is usually used at : a) Outlook program b) Web based email programs c) Databases d) Desktop applications	1	Problem Solving
10	Write short note on TCP/IP.	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)**		
	Q 14 and 15 are ASSERTION AND REASONING based questions. Mark the correct choice as (a) Both A and R are true and R is the correct explanation for A (b) Both A and R are true and R is not the correct explanation for A (c) A is True but R is False (d) A is false but R is True		
14	**Assertion.** A modem is a communication device that works on the principle of converting digital data to analog data and vice versa. **Reason.** Modulation is a process of converting digital data to analog form and Demodulation is a process of converting analog data to digital form.	1	HOT
15	**Assertion.** A router and a bridge are similar. **Reason.** A router works like a bridge but can handle different protocols unlike bridge.	1	HOT
16	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 ? a) POP3 b) SMTP c) VoIP d) HTTP	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	Global Village Enterprises has following four buildings in Hyderabad city : Computers in each building are networked but buildings are not networked so far. The company has now decided to connect buildings also. (a) Suggest a cable layout for these buildings. (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 ? (c) The company also wants to make available shared Internet access for each of the buildings. How can this be achieved ? (d) The company wants to link its head office in GV1 building to its another office in Japan.	5	Critical Thinking and Problem solving
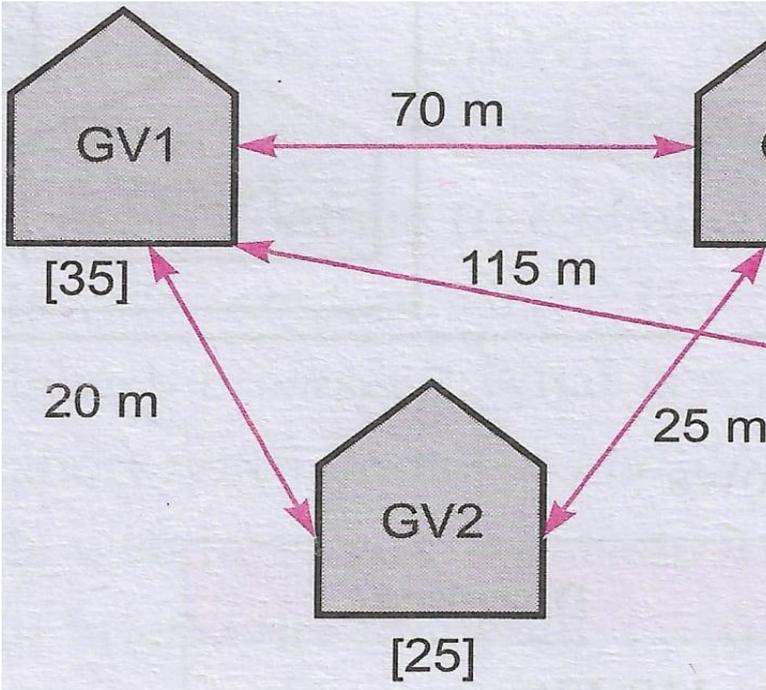
	1. Which type of transmission medium is appropriate for such a link ? 2. What type of network would this connection result into ?			