

**ARMY PUBLIC SCHOOL GWALIOR**  
**CLASS -XII**  
**ACADEMIC SESSION 2021-22**  
**WORKSHEET (SELF –ASSESSMENT)**

**Subject: English**

**Assignment No. : 4**

**Allotment Date: 18 July 2021**

S. NO.	QUESTIONS	MARKS	NATURE
1	<p>The Citizens Awareness Forum of your city has decided to launch a campaign against the use of drugs. You are asked to get posters prepared . Design an attractive and effective poster against the use of drugs.(50-60 words)</p>	4	Information
2	<p>Read the extract given below and answer the questions that follow.</p> <p>“Those who prepare green wars Wars with gas ,wars with fire, Victory with no survivors Would put on clean clothes And talk about with their brothers In the shade ,doing nothing.”</p>	4	Understanding

	<p>(i) Identify the poem and the poet.</p> <p>(ii) What sort of wars are mentioned in the above lines?</p> <p>(iii) What kind of victory will it be ?</p> <p>(iv) How should the lovers of war behave?</p>		
3	<p>The peddler thinks that the whole world is a rattrap. This view of life is true only of himself and no one else in the story.</p> <p>Comment .Answer in about 120-150 words.</p>	6	HOT
4	<p>You were a witness of a daring daylight robbery .When you had gone to your bank for some personal work. Write a report on the incident in about 150-200 words.</p>	10	Interdisciplinary
5	<p>The peddler believed that the whole world is a rattrap. How did he himself get caught in the same. Answer in about 120-150 words.</p>	6	Analytical Skill
6	<p>You are Rita / Rohan .Write a letter to the Editor, The Times of India ,Lucknow ,about your village which does not have a Primary Health Centre .The sick villagers have to travel a long distance for medical help. Many villagers have died due to lack of timely medical care.</p>	6	Critical Thinking and Problem Solving
7	<p>Answer the following questions in 30-40 words each.</p> <p>(i) Why did Tishani Doshi board the</p>	2x2=4	Evaluation

	<p>'AkademicShokalskly'?What did her journey involve?</p> <p>(ii) Why had Hana to wash the wounded man herself ?</p>		
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## ARMY PUBLIC SCHOOL GWALIOR

### CLASS -XII

### ACADEMIC SESSION 2021-22

### WORKSHEET (SELF –ASSESSMENT)

Subject: Hindi

Assignment No. : 4

Allotment Date: 18 July 2021

S. NO.	QUESTIONS	MARKS	NATURE
1	आपने पत्रकारिता का अध्ययन पूरा कर लिया है। किसी समाचार पत्र में संवाददाता पड़ के लिए अपनी योग्यता का विवरण देते हुए आवेदन पत्र तैयार कीजिए।	5	Information
2	“भारत में बाल मजदूरी की समस्या” विषय पर आलेख लिखिए।	5	Understanding
3	<p>4. चंपारण सत्याग्रह के बीच जो लोग गांधी जी के संपर्क में आए वे आगे चलकर देश के निर्माताओं में गिने गए। चंपारण में गांधी जी न सिर्फ सत्य और अहिंसा का सार्वजनिक हितों में प्रयोग कर रहे थे बल्कि हलुवा बनाने से लेकर सिल पर मसाला पीसने और चक्की चलाकर गेहूँ का आटा बनाने की कला भी उन बड़े वकीलों को सिखा रहे थे, जिन्हें गरीबों की अगुवाई की जिम्मेदारी सौंपी जानी थी। अपने इन आध्यात्मिक प्रयोगों के माध्यम से वे देश की गरीब जनता की सेवा करने और उनकी तकदीर बदलने के साथ देश को आजाद कराने के लिए समर्पित व्यक्तियों की एक ऐसी जमात तैयार करना चाह रहे थे जो सत्याग्रह की भट्टी में उसी तरह तपकर निखरे, जिस तरह भट्टी में सोना तपकर निखरता और कीमती बनता है।</p> <p>गांधी जी की मान्यता थी कि एक प्रतिष्ठित वकील और हज़ामत बनाने वाले हज़ाम में पेशे के लिहाज़ से कोई फ़र्क नहीं, दोनों की हैसियत एक ही हैं। उन्होंने पसीने की कमाई को सबसे अच्छी कमाई माना और शारीरिक श्रम को अहमियत देते</p>	5	HOT

	<p>हुए उसे उचित प्रतिष्ठा व सम्मान दिया था। कोई काम बड़ा नहीं, कोई काम छोटा नहीं, इस मान्यता को उन्होंने प्राथमिकता दी ताकि साधन शुद्धता की बुनियाद पर एक ठीक समाज खड़ा हो सके। आज़ाद हिंदुस्तान आत्मनिर्भर, स्वावलंबी और आत्म-सम्मानित देश के रूप में विश्व-बिरादरी के बीच अपनी एक खास पहचान बनाए और फिर उसे बरकरार भी रखे। (All India 2015)</p> <p>प्रश्न: 1. किसी काम या पेशे के बारे में गांधी जी की मान्यता क्या है ?</p> <p>प्रश्न: 2. गांधी जी सबसे अच्छी कमाई किसे मानते थे?</p> <p>प्रश्न: 3. चंपारण सत्याग्रह के दौरान गांधी जी आध्यात्मिक प्रयोग क्यों कर रहे थे?</p> <p>प्रश्न: 4. गांधी जी लोगों को शारीरिक श्रम का महत्त्व किस तरह समझा रहे थे?</p> <p>प्रश्न: 5. शारीरिक श्रम को महत्त्व देने और हर काम को समान समझने के पीछे गांधी जी की दूरदर्शिता क्या थी?</p>		
4	<ol style="list-style-type: none"> <li>विशेषीकृत पत्रकारिता से आप क्या समझते हैं ?</li> <li>हिंदी पत्रकारिता दिवस कब और किस उपलक्ष्य में मनाया जाता है?</li> <li>सपादकीय में लेखक का नाम क्यों नहीं दिया जाता है ?</li> <li>‘वॉचडॉग पत्रकारिता’ किस प्रकार लोकतंत्र का प्रहरी है ?</li> <li>किन्हीं चार हिंदी समाचार पत्रों के नाम लिखिए, जिनके इंटरनेट संस्करण भी उपलब्ध हैं।</li> </ol>	5	Interdisciplinary
5	‘पर्यावरण है तो मानव है’ विषय पर अनुच्छेद लिखिए।	5	Analytical Skill
6	‘विश्वासपात्र मित्र जीवन कि एक औषधि है’ विषय पर फीचर लिखिए।	5	Critical Thinking and Problem Solving
7	ऐन फ्रैंक हालैंड की तत्कालीन दशा के बारे में अपनी डायरी में क्या बताती हैं? ‘डायरी के पन्ने’ पाठ के आधार पर स्पष्ट कीजिए ?	5	Evaluation
8	दिनों – दिन गहराते पानी के संकट से निपटने के लिए क्या आज युवा वर्ग ‘काले मेघा पानी दे’ कि इंद्र सेना की तर्ज पर कोई सामूहिक आन्दोलन प्रारम्भ कर सकता है? अपने विचार व्यक्त कीजिए?	5	Communication Skills



# ARMY PUBLIC SCHOOL GWALIOR

## CLASS -XII

### ACADEMIC SESSION 2021-22

### WORKSHEET (SELF –ASSESSMENT)

Subject: Mathematics

Assignment No. : 4

Allotment Date: 18 July 2021

S. NO.	QUESTIONS	MARKS	NATURE
1	Let L be the set of all lines in a plane and R be the relation in L defined as $R = \{(L_1, L_2) : L_1 \text{ is perpendicular to } L_2\}$ Then, which one is correct (a) R is reflexive and symmetric but not transitive (b) R is an equivalence relation (c) R is symmetric but neither reflexive nor transitive (d) R is reflexive and transitive but not symmetric	1	HOT
2	Let $f: R \rightarrow R$ be defined by $f(x) = 3x$ . Then: (a) f is one-one onto (b) f is many one onto (c) f is one-one but not onto (d) f is neither one-one nor onto	1	Understanding
3	Let $A = \{a, b, c, d\}$ . Then a relation $R = \{(a, b), (b, a), (a, a)\}$ on A is (a) Symmetric only (b) Transitive only (c) Symmetric and Transitive only (d) Reflexive and transitive only	1	HOT
4	Let $f: R \rightarrow R$ be defined by $f(x) = \sqrt[3]{(3 - x^3)}$ . Then $f \circ f(x)$ is: (a) $\sqrt[3]{x}$ (b) $x^3$ (c) x (d) $3 - x^3$	1	Understanding
5	The relation 'R' in $N \times N$ such that: $(a, b) R (c, d) \Rightarrow a + d = b + c$ is (a) Reflexive but not symmetric (b) Reflexive and transitive but not symmetric (c) An equivalence relation (d) symmetric but not reflexive	1	Understanding
6	Let $R = \{(a, a^3) : a \text{ is prime number less than } 4\}$ be a relation. Then the range of R is: (a) {8} (b) {8, 27} (c) {27} (d) none of these	1	Understanding

7	Let $f: R \rightarrow R$ be a function defined by $f(x) = 2x+3$ . Then $f^{-1}(x)$ is equal to: (a) $2x-3$ (b) $\frac{x-3}{2}$ (c) $\frac{x-2}{3}$ (d) $\frac{1}{2x+3}$	1	Understanding
8	Let $f:A \rightarrow B$ and $g :B \rightarrow C$ be the bijective functions. Then $(gof)^{-1}$ is (a) $f^{-1}og^{-1}$ (b) $fog$ (c) $g^{-1}of^{-1}$ (d) $gof$	1	Information
9	Write the smallest reflexive relation on the set $A =\{2,3,4\}$ .	1	Information
10	Write the total number of equivalence relations defined in the set $S = \{a, b, c\}$ .	1	Understanding
11	Let the relation $R$ be defined in $N$ by $aR_b$ if $2a+3b = 30$ . Find $R$ .	2	HOT
12	The relation $R$ is defined on the set of natural numbers as: $\{(a, b) : a = 2b\}$ . Then, write $R^{-1}$ .	2	HOT
13	Let $f(x) = x^2 - x + 1$ , $x \geq 1/2$ , then find the solution of the equation $f(x) = f^{-1}(x)$ .	2	Analytical Skill
14	Let $A = \{1, 2, 3, \dots, n\}$ and $B = \{a, b\}$ . Then write the number of surjective functions from $A$ into $B$ .	2	Analytical Skill
15	$f: R \rightarrow R$ , $g: R \rightarrow R$ and $h: R \rightarrow R$ are such that $f(x) = x^2$ , $g(x) = \tan x$ and $h(x) = \log x$ , then find the value of $(go(foh))(x)$ , if $x = 1$ .	2	Interdisciplinary
16	Let $R$ be defined on $A = \{1,2,3,4,5\}$ by $R =\{(a,b) :  a^2 - b^2  < 8\}$ . Find $R$ .	2	Critical Thinking and Problem Solving
17	If $f(x) = 4 - (x-7)^{1/3}$ , then write $f^{-1}x$ .	2	Interdisciplinary
18	If the function $f: R \rightarrow R$ be given by $f(x) = x^2+2$ and $g: R \rightarrow R$ be given by $g(x) = \frac{x}{x-1}$ , $x \neq 1$ , find $fog$ and $gof$ and hence find $(fog)(2)$ and $(gof)(-3)$ .	3	Critical Thinking and Problem Solving
19	Let $f: R \rightarrow R$ , $g: R \rightarrow R$ be two functions such that : $f(x) = 2x - 3$ , $g(x) = x^3 + 5$ . Then find the function $(fog)^{-1}(x)$ .	3	Critical Thinking and Problem Solving
20	Let $f: N \rightarrow Y$ be a function defined as $f(x) = 4x + 3$ , where, $Y = \{y \in N: y = 4x + 3 \text{ for some } x \in N\}$ . Show that $f$ is invertible. Find the inverse.	5	Critical Thinking and Problem Solving
21	Let $A = \{1,2,\dots,9\}$ and $R$ be the relation in $A \times A$ defined by $(a,b)R(c,d)$ if $a+d = b+c$ , for $(a,b), (c,d)$ in $A \times A$ . Prove that $R$ is an equivalence relation. Also obtain the equivalence class $\{(2,5)\}$ .	5	Critical Thinking and Problem Solving



**ARMY PUBLIC SCHOOL GWALIOR**  
**CLASS -XII**  
**ACADEMIC SESSION 2021-22**  
**WORKSHEET (SELF –ASSESSMENT)**

**Subject: Biology**

**Assignment No. : 4**

**Allotment Date: 18 July 2021**

S. NO.	QUESTIONS	MARKS	NATURE
1	Describe the formation and the function of corpus luteum.	02	Information
2	Name the pituitary hormones influencing Leyding cells and Sertoli cells present in human testes. Explain the functions of these cells.	03	
3	Explain the development of an ovum from an oogonium in a human female .	03	Understanding
4	Placenta acts as endocrine tissue. Justify.	03	



<b>5</b>	When and where are primary oocytes formed in human female? Trace the development of these oocytes till ovulation (in menstrual cycle). How do gonadotrophin influence this development process.	04	HOT
<b>6</b>	How are assisted reproductive technologies helpful to humans? How are ZIFT and GIFT different from intrauterine transfers? Explain.	02	
<b>7</b>	Mention any two events that are inhibited by the intake of oral contraceptive pills to prevent pregnancy in humans.	03	Interdisciplinary
<b>8</b>	Name any two copper-releasing Intrauterine devices (IUDs). List two reasons that make them effective contraceptives.	05	Analytical Skill
<b>9</b>	At the time of Independence, the population of India was 350 million, which exploded to over one billion by May 2000. List any two reasons for the rise in population and any two steps taken by the government to check this population explosion.	02	Critical Thinking and Problem Solving
<b>10</b>	What is amniocentesis? Why has the government imposed	03	Evaluation

<p><b>11</b></p>	<p>a statutory ban in spite of its importance in the medical field?</p> <p>(a) Explain the events taking place at the time of fertilization of an ovum in a human female. (b) Trace the development of the zygote upto its implantation in the uterus. (c) Name and draw a labelled sectional view of the embryonic stage that gets transplanted.</p>	<p>05</p>	
<p><b>12</b></p>	<p>(a) Why is CuT considered a good contraceptive device to space children? (b) Name an oral pill used as contraceptive by human females. Explain how it does prevent pregnancy.</p>	<p>05</p>	<p>Communication Skills</p>



**ARMY PUBLIC SCHOOL GWALIOR**  
**CLASS -XII**  
**ACADEMIC SESSION 2021-22**  
**WORKSHEET (SELF –ASSESSMENT)**

**Subject: Chemistry**

**Assignment No. : 4**

**Allotment Date: 18 July 2021**

S. NO.	QUESTIONS	MARKS	NATURE
1	.How Raoult's law is similar to Henry's law. Write their mathematical expressions?	2	Analytical Skills
2	.Define the following terms a.Binary solution b.Azeotropes	2	Understanding
3	What is meant by molarity of a solution? State one disadvantage in using the molarity as the unit of concentration	2	Analytical Skills
4	Mention any two applications of Henry's law.	2	Interdisciplinary
5	How is molarity different from molality?	2	Understanding
6	State Henry's law. What is significance of $K_H$ ?	2	Information
7	Define the term solution. How many types of solutions are formed. Explain briefly.	3	Information
8	. A solution of glucose (molar mass=180g/mol) in water is labelled as 10% (by mass). What would be molarity and molality of the solution. Density of solution =1.2g/mL	3	HOT

S. NO.	QUESTIONS	MARKS	NATURE
9	What do you mean by ideal solution? Write down the conditions for a solution to be ideal?	3	Understanding
10	Why are aquatic species more comfortable in cold water in comparison to warm water?	3	HOT
11	The density of water of a lake is 1.25g/mL and one kg of this water contains 92g of Na <sup>+</sup> ions. What is molarity of Na <sup>+</sup> ions in water of the lake?	3	Interdisciplinary
12	Why solutions show deviation from Raoult's law. Explain.	3	Interdisciplinary
13	What type of deviation is shown by a mixture of ethanol and acetone? Explain with the help of graph.	5	Understanding
14	Taking an example of a mixture showing negative deviation, explain negative deviation, and draw graph also.	5	HOT



# ARMY PUBLIC SCHOOL GWALIOR

## CLASS -XII

### ACADEMIC SESSION 2021-22

### WORKSHEET (SELF –ASSESSMENT)



Subject: Physics

Assignment No. : 4

Allotment Date: 18 July 2021

S. NO.	QUESTIONS	MARKS	NATURE
1	State and explain the principle of superposition of light waves.	2	Information
2	What are coherent and incoherent sources of light? How can we obtain coherent source of light	2	Understanding
3	What do you mean by sustained interference? Write the conditions for sustained interference	2	Understanding
4	a) Why should we have a narrow source to produce good interference fringes? b) Can two coherent source of light be obtained from one non-coherent source of light? Explain.	2	Interdisciplinary
5	Give two examples illustrating the phenomenon of interference of light.	2	Information
6	How does the angular separation between fringes in single slit diffraction experiment change when the distance of separation between slit and screen is doubled?	2	Analytical Skill
7	If the separation between the two slits in Young's double slit experiment is decreased keeping the screen position fixed, what will happen to the fringe width?	3	Communication skill
8	How the fringe width in Young's double slit experiment change when the distance 'D' of separation between the slits and screen is doubled	3	HOTS

S. NO.	QUESTIONS	MARKS	NATURE
9	Why does light from a clear blue sky show a rise and fall of intensity when viewed through a Polaroid which is rotated	3	HOTS
10	The objective lenses of two telescopes have the same aperture but their focal length are in the ratio 1 :2.Compare the resolving power of two telescopes	3	Evaluation
11	<p>What happens to the resolving power of a compound microscope when</p> <p>i) refractive index of the medium between object and objective lens increases</p> <p>ii) wavelength of the radiation used in is increased</p>	3	Understanding
12	<p>What changes in the interference pattern in Young's double slit experiment will be observed when</p> <p>i) Light of smaller frequency is used</p> <p>ii) The apparatus is immersed in water</p>	3	Communication skill
13	When an unpolarized light is incident on a plane glass surface, find the expression for the angle of incidence so that reflected and refracted light rays are perpendicular to each other. What is the state of polarization of reflected and refracted light, under this condition?	5	Analytical Skill
14	If one of the two identical slits producing interference in Young's double slit experiment is covered with glass, so that light intensity passing through it is reduced to 50% .Find the ratio of the maximum and minimum intensity of the fringes in the interference pattern.	5	Evaluation



**ARMY PUBLIC SCHOOL GWALIOR**  
**CLASS -XII**  
**ACADEMIC SESSION 2021-22**  
**WORKSHEET (SELF –ASSESSMENT)**

**Subject: Accountancy**

**Assignment No. : 4**

**Allotment Date: 18 July 2021**

S. NO.	QUESTIONS	MARKS	NATURE
1	What is meant by a Cash Flow Statement ?	1	Knowledge
2	When does an investment qualify as cash equivalent?	1	Knowledge
3	What is meant by cash equivalents?	1	Knowledge
4	What is meant by Operating activity?	1	Remembering
5	Give one difference between Investing activity and Financing activity?	1	Reasoning
6	State why cash flow statement is not suitable for income statement?	1	Reasoning
7	Under which type of activity will you classify 'commission and royal received'?	1	Knowledge
8	When does flow of cash take place?	1	Knowledge
9	How is purchase of goodwill shown in cash flow statement?	1	Knowledge
10	Give an example of an activity which remain financing for every enterprise.	1	Reasoning
11	What are the objectives of preparing cash flow statement?	3	Knowledge

12	Explain the treatment of Provision for Tax of previous year?	3	Problem solving																																																																																															
13	Explain accounting treatment of Proposed Dividend while preparing cash flow statement.	4	Critical thinking																																																																																															
14	<p>Calculate cash flow from Operating activity from the following information:</p> <table border="1" data-bbox="240 371 1123 707"> <thead> <tr> <th>Particulars</th> <th>31.03.2015</th> <th>31.03.2014</th> </tr> </thead> <tbody> <tr> <td>Surplus</td> <td>80,000</td> <td>1,00,000</td> </tr> <tr> <td>Trade receivables</td> <td>2,50,000</td> <td>2,40,000</td> </tr> <tr> <td>Goodwill</td> <td>15,000</td> <td>20,000</td> </tr> <tr> <td>Outstanding expenses</td> <td>8,000</td> <td>---</td> </tr> <tr> <td>General reserve</td> <td>80,000</td> <td>50,000</td> </tr> <tr> <td>Provision for depreciation</td> <td></td> <td></td> </tr> <tr> <td>Prepaid expenses</td> <td>1,00,000</td> <td>82,000</td> </tr> <tr> <td>Trade payable</td> <td>----</td> <td>6,000</td> </tr> <tr> <td></td> <td>84,000</td> <td>60,000</td> </tr> </tbody> </table> <p>Additional information:</p> <p>i. Plant costing Rs.60,000 having book value of Rs.36,000 was sold for Rs.40,000 during the year.</p> <p>ii. Income tax paid during the year was Rs.30,000.</p> <p>iii. Dividend paid during the year was Rs.18,000.</p>	Particulars	31.03.2015	31.03.2014	Surplus	80,000	1,00,000	Trade receivables	2,50,000	2,40,000	Goodwill	15,000	20,000	Outstanding expenses	8,000	---	General reserve	80,000	50,000	Provision for depreciation			Prepaid expenses	1,00,000	82,000	Trade payable	----	6,000		84,000	60,000	6	Knowledge																																																																	
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15	<p>From the following Balance Sheet of G Ltd. as at 31st March, 2019 and additional information, prepare Cash Flow Statement :</p> <p><b>Balance Sheet of G Ltd. as at 31st March, 2019.</b></p> <table border="1" data-bbox="248 1059 1037 2029"> <thead> <tr> <th></th> <th>Particulars</th> <th>Note No.</th> <th>31.03.2019 ₹</th> <th>31.03.2018 ₹</th> </tr> </thead> <tbody> <tr> <td colspan="5"><b>I - Equity and Liabilities :</b></td> </tr> <tr> <td colspan="5"><b>1. Shareholder's Funds :</b></td> </tr> <tr> <td></td> <td>(a) Share Capital</td> <td></td> <td>8,00,000</td> <td>6,00,000</td> </tr> <tr> <td></td> <td>(b) Reserves and Surplus</td> <td>1</td> <td>3,30,000</td> <td>2,20,000</td> </tr> <tr> <td colspan="5"><b>2. Non-Current Liabilities :</b></td> </tr> <tr> <td></td> <td>Long-term Borrowings</td> <td>2</td> <td>1,60,000</td> <td>1,00,000</td> </tr> <tr> <td colspan="5"><b>3. Current Liabilities :</b></td> </tr> <tr> <td></td> <td>Trade Payables</td> <td></td> <td>1,65,000</td> <td>1,95,000</td> </tr> <tr> <td></td> <td style="text-align: right;"><b>Total</b></td> <td></td> <td>14,55,000</td> <td>11,15,000</td> </tr> <tr> <td colspan="5"><b>II - Assets :</b></td> </tr> <tr> <td colspan="5"><b>1. Non-Current Assets :</b></td> </tr> <tr> <td></td> <td>(a) Fixed Assets</td> <td>3</td> <td>9,50,000</td> <td>6,05,000</td> </tr> <tr> <td></td> <td>(b) Non-Current Investments</td> <td></td> <td>1,35,000</td> <td>1,00,000</td> </tr> <tr> <td colspan="5"><b>2. Current Assets :</b></td> </tr> <tr> <td></td> <td>(a) Current Investments</td> <td></td> <td>80,000</td> <td>40,000</td> </tr> <tr> <td></td> <td>(b) Trade Receivables</td> <td></td> <td>90,000</td> <td>2,00,000</td> </tr> <tr> <td></td> <td>(c) Cash and Cash Equivalentents</td> <td></td> <td>2,00,000</td> <td>1,70,000</td> </tr> <tr> <td></td> <td style="text-align: right;"><b>Total</b></td> <td></td> <td>14,55,000</td> <td>11,15,000</td> </tr> </tbody> </table> <p><b>Notes to Accounts :</b></p>		Particulars	Note No.	31.03.2019 ₹	31.03.2018 ₹	<b>I - Equity and Liabilities :</b>					<b>1. Shareholder's Funds :</b>						(a) Share Capital		8,00,000	6,00,000		(b) Reserves and Surplus	1	3,30,000	2,20,000	<b>2. Non-Current Liabilities :</b>						Long-term Borrowings	2	1,60,000	1,00,000	<b>3. Current Liabilities :</b>						Trade Payables		1,65,000	1,95,000		<b>Total</b>		14,55,000	11,15,000	<b>II - Assets :</b>					<b>1. Non-Current Assets :</b>						(a) Fixed Assets	3	9,50,000	6,05,000		(b) Non-Current Investments		1,35,000	1,00,000	<b>2. Current Assets :</b>						(a) Current Investments		80,000	40,000		(b) Trade Receivables		90,000	2,00,000		(c) Cash and Cash Equivalentents		2,00,000	1,70,000		<b>Total</b>		14,55,000	11,15,000	6	Knowledge, Critical Thinking and Problem Solving
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Note No.	Particulars	31.03.2019 ₹	31.03.2018 ₹
1.	<b>Reserves and Surplus :</b> Surplus (i.e. Balance in Statement of Profit and Loss)	3,30,000	2,20,000
		3,30,000	2,20,000
2.	<b>Long-term Borrowings :</b> 10% Debentures	1,60,000	1,00,000
		1,60,000	1,00,000
3.	<b>Fixed Assets :</b> Machinery (cost) (-) Accumulated Depreciation	10,70,000 (1,20,000)	7,00,000 (95,000)
		9,50,000	6,05,000

*Additional information :*

10% Debentures Rs.60,000 were issued on 1st April, 2018.

16

(i) From the following information of Nova Ltd., calculate the cash flow from investing activities :

Particulars	31.3.2019 ₹	31.3.2018 ₹
Machinery (At cost)	5,00,000	3,00,000
Accumulated Depreciation on machinery	1,00,000	80,000
Goodwill	1,50,000	1,00,000
Land	70,000	1,00,000

*Additional Information :*

During the year, a machine costing Rs.50,000 on which the accumulated depreciation was Rs.35,000, was sold for Rs.12,000.

(ii) The profit of Jova Ltd. for the year ended 31st March, 2019 after appropriation was Rs.2,50,000.

*Additional Information :*

S.No.	Particulars	Amount ₹
1.	Depreciation of Machinery	20,000
2.	Goodwill written off	9,000
3.	Loss on sale of Furniture	2,000
4.	Transfer to General Reserve	22,500

The following was the position of its Current Assets and Current Liabilities as at 31st March, 2018 and 2019.

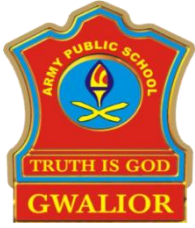
Particulars	31.3.2018 ₹	31.3.2019 ₹
Income Received in Advance	8,000	—
Inventory	12,000	8,000

Calculate the Cash flow from operating activities.

\*\*\*\*\*

8

Knowledge and problem solving



**ARMY PUBLIC SCHOOL GWALIOR**  
**CLASS -XII**  
**ACADEMIC SESSION 2021-22**  
**WORKSHEET (SELF –ASSESSMENT)**

**Subject: Business Studies**

**Assignment No. : 4**

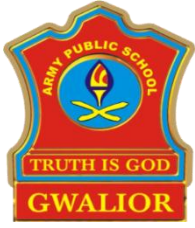
**Allotment Date: 18 July 2021**

<b>S. NO.</b>	<b>QUESTIONS</b>	<b>MARKS</b>	<b>NATURE</b>
1	Define 'Planning Premise'.	1	Remembering
2	What is meant by single use plan?	1	Knowledge
3	Raj Auto Ltd. was engaged in manufacturing motor cycles. Its long term objective was to capture the market by increasing sales every year. For this it analysed the pricing policy of the competitors. To achieve this objective it decided to offer a discount of Rs. 3,000 and free insurance on purchase of every motor cycle. This attracted the customers and the sales increased. Identify the type of plan being followed by Raj Auto Ltd.	1	Knowledge
4	'ABC Ltd.' Decides to advertise their product on T. V. and radio. What type of plan should it prepared?	1	Understanding
5	Name the type of plan which provides the basis for interpreting the strategy.	1	Understanding
6	Give two examples of external planning.	1	Understanding
7	Which type of plan has least flexibility?	1	Understanding
8	The blue print of business is called.....	1	Understanding
9	(State True/False) Planning provides base for controlling.	1	Knowledge

10	(State True/False) Budget is a standing plan.	1	Understanding
11	How is 'Planning a pervasive function of management'?	3	Understanding and analyzing
12	Explain any three points of importance of planning function of management.	3	Understanding
13	Explain limitations of planning process.	4	Remembering
14	<p>In 2015, Naveen left his luxurious life in Mumbai, where he worked as a manager for Bluebirds Ltd. He shifted to Begampur, Chhattisgarh to fulfill his grandmother's dream of converting their 25 acre ancestral land into a fertile farm. For this he set out specific goals along with the activities to be performed to achieve the goals.</p> <p>Every activity was a challenge since he was clueless about farming. He learnt every activity from filling the land to sowing the seeds. To aid farmers he launched his own company 'Innovative Agriculture Solutions Pvt. Ltd.'</p> <p>It was difficult initially as no one trusted an urban youth telling farmers about farming. But when everything was discussed in detail the farmers started taking interest. He wanted to ensure that the future events meet effectively the best interests of the company. Through sales forecasting, he prepared an annual plan for production and sales. He also found that the farmers grew only paddy, which was an activity of 3-4 months and the land remained idle for the rest 8-9 months of the year. He not only identified but evaluated various alternatives through which the farms could be utilized</p>	4	Understanding and analyzing
15	<p>An Auto Company, Win Ltd is facing a problem of declining market share due to increased competition from other new and existing players in the market. Its Competitors are introducing lower priced models for mass consumers who are price sensitive. The Board of Directors of the Company announced a meeting to discuss the decisions regarding pricing and launching a new range of models, in order to increase the market share of the company. Attending the meeting was not a discretion for the directors and a penalty was announced for not attending the meeting. The following decisions were taken in the meeting:</p> <p>a) to define the desired future position of the company, as acquiring a dominant position in the market by increasing the market share to 10% in 1 year.</p> <p>b) to change the criteria for choosing vendors for procuring supplies;</p> <p>c) to invest in development of the human resources of the organisation by providing training to higher levels by holding seminars and providing on the job training for the supervisory management.</p> <p>What are standing plans and single use plans? Briefly explain the plans discussed above, which can be classified as standing plans, by quoting the lines.</p>	5	Understanding and analyzing
16	What are the steps taken by management in the planning	5	Understanding

	process.		
<b>17</b>	Explain : <ul style="list-style-type: none"><li>• Objective</li><li>• Procedure</li><li>• Strategy</li></ul>	<b>6</b>	Remembering and Understanding

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**ARMY PUBLIC SCHOOL GWALIOR**  
**CLASS -XII**  
**ACADEMIC SESSION 2021-22**  
**WORKSHEET (SELF –ASSESSMENT)**

**Subject: Economics**

**Assignment No. : 4**

**Allotment Date: 18 July 2021**

S. NO.	QUESTIONS	MARKS	NATURE
1	If AD exceeds AS, the income rises. (True/False, Give reason)	1	Information
2	When MPC is greater than MPS, the value of investment multiplier will be greater than 5. (Yes/No. Support your answer)	1	Understanding
3	When MPC is zero, the value of investment multiplier will be _____.	1	HOT
4	At equilibrium level: (a) $C=I$ (b) $AD=S$ (c) $S=I$ (d) $C=S$	1	Interdisciplinary
5	The maximum value of multiplier is _____ when the value of MPC is _____. (a) Infinity, Zero (b) Infinity, One (c) One, Infinity (d) None of these	1	Analytical Skill
6	Name the monetary measure indicated in the following statement. • RBI starts selling Government securities to the public.	1	Critical Thinking and Problem Solving
7	To check inflation, the central bank should reduce the CRR. (True/False)	1	Evaluation
8	Sale of government securities by the central bank in the open market is an appropriate policy to check depression in the economy. (True/False. Support your answer)	1	Evaluation Skill
9	_____ is exercised through discussion, letters and speeches to banks. (a) Moral suasion (b) Selective Credit Controls (c) Margin Requirements	1	Analytical Skill

	(d) Open Market Operation		
<b>10</b>	“Change in Government spending” is a part of”: (a) Monetary Policy (b) Fiscal Policy (c) Either (a) or (b) (d) Neither (a) nor (b)	1	Interdisciplinary
<b>11</b>	Can an economy be in equilibrium when there is unemployment in the economy.Explain.	3	Communication Skills
<b>12</b>	“An excess of AD over AS always implies a situation of inflationary gap.” Defend or Refute.	3	Critical Thinking and Problem solving
<b>13</b>	Why must AD be equal to AS at the equilibrium level of income and output? Explain with the help of a diagram.	4	Interdisciplinary
<b>14</b>	Explain determination of equilibrium level of income using ‘consumption plus Investment approach. Use diagram	4	Understanding/Analyse
<b>15</b>	Explain the role of the following in correcting ‘excess demand’ in an economy: (i) Bank Rate (ii) Open market operations.	4	HOT
<b>16</b>	In an economy, 60% of increased income is spent on consumption. If Rs.4 crores are invested in a project, find out the increase in income and saving.	6	Critical Thinking and Problem solving
<b>17</b>	Distinguish between Inflationary gap and deflationary gap. Show deflationary gap on a diagram. Can this gap exist at equilibrium level of income? Explain.	6	Evaluation



**ARMY PUBLIC SCHOOL GWALIOR**  
**CLASS -XII**  
**ACADEMIC SESSION 2021-22**  
**WORKSHEET (SELF –ASSESSMENT)**

Subject: History

Assignment No. : 4

Allotment Date: 18 July 2021

S. NO.	QUESTIONS	MARKS	NATURE
1	<p style="text-align: center;">Part- A</p> <p><i>Answer the following objective type questions:</i></p> <p>(a) What is meant by hoards? (b) A place for storage of grains is called----- . (c) ----- was a very soft stone was used to make seals. (d) ----- is the study of coins. (e)----- term is used for ploughmen. (f) ----- is a Tamil word which is used for successful merchants. (g) What is meant by Agrahara? (h)What is Uluq? (i) What is meant by dola? (j) Who were Antyaja?</p>	(10x1=10)	Informative
2	<p>Part- B</p> <p><i>Answer the following questions in short:</i></p> <p>Why did the Harappan civilisation decline?</p>	3	Evaluation
3	List some of the problems faced by epigraphists.	3	Understanding
4	Discuss the notions of kingship that developed in the post-Mauryan period.	3	HOT
5	Write a short note on the life of Ibn Battuta.	3	Understanding

6	<p style="text-align: center;">Part- C</p> <p><i>Long questions answers:</i> Describe the town planning and drainage system of the Harappan civilisation.</p> <p style="text-align: center;">Or</p> <p>Discuss the extent to which Bernier's account enables historians to reconstruct contemporary rural society.</p>	8	Understanding & HOT
7	<p style="text-align: center;">Part-D (Sources Based Questions)</p> <p>Read the following extract carefully and answer the questions that follow:</p> <p style="text-align: center;"><b>What the king's officials did?</b></p> <p>Here is an excerpt from the account of Megasthenes: Of the great officers of state, some ... superintend the rivers, measure the land, as is done in Egypt, and inspect the sluices by which water is let out from the main canals into their branches, so that every one may have an equal supply of it. The same persons have charge also of the huntsmen, and are entrusted with the power of rewarding or punishing them according to their deserts. They collect the taxes, and superintend the occupations connected with land; as those of the woodcutters, the carpenters, the blacksmiths, and the miners.</p> <p><b>Questions:</b> Q.1- Explain the duties of the officers of state. Q2.- Explain the role of the sub-committees for coordinating military activities. Q3- What did Ashoka do to hold his empire together?</p>	(2+2+1=5)	Application and understanding
8	<p style="text-align: center;">PART-E (Map Question)</p> <p>On a map of India, mark and locate the following:</p> <ol style="list-style-type: none"> <li>i. Dholavira</li> <li>ii. Banawali</li> <li>iii. Sopara</li> <li>iv. Girinar</li> <li>v. Delhi</li> </ol>	(5x1=5)	Identification






**ARMY PUBLIC SCHOOL GWALIOR**  
**CLASS -XII**  
**ACADEMIC SESSION 2021-22**  
**WORKSHEET (SELF –ASSESSMENT)**

**Subject: Political Science**

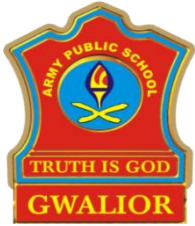
**Assignment No. : 4**

**Allotment Date: 18 July 2021**

S. NO.	QUESTIONS	MARKS	NATURE
1	<p>Objective Type Questions:</p> <p>(a)----- is the term which is used to describe hydrological and cultural domination of a hegemon.</p> <p>(b)To extract benefits by operating within hegemonic system in place of opposing it is called ----- Strategy.</p> <p>(c) Which among the following statements about hegemony is incorrect?</p> <ol style="list-style-type: none"><li>The world implies the leadership or predominance of one State.</li><li>It was used to denote the predominance of Athens in the ancient Greece.</li><li>The country having hegemonic position will possess unchallenged military power.</li><li>Hegemonic position is fixed. Once a hegemon, always a hegemon.</li></ol> <p>(d) What does the term 'hegemony' imply?</p> <p>(e) What is meant by 9/11 in the context of USA?</p> <p>(f) What do you mean by Operation Infinite Reach?</p> <p>(g) What is 'Guantanamo Bay'?</p> <p>(h) An Afro-Asian Conference was held in Bandung in -----</p> <p>---</p> <ol style="list-style-type: none"><li>1955</li><li>1954</li><li>1956</li><li>1962</li></ol> <p>(i) What do you mean by Decolonisation?</p>	(10x1=10)	Informative

	(j) Arrange the following events in the correct chronological sequence from the earlier to the latest: <ul style="list-style-type: none"> <li>i. First nuclear test conducted by India.</li> <li>ii. Twenty-year Treaty of Peace and Relationship between India and Soviet Union.</li> <li>iii. The Tashkent Agreement.</li> <li>iv. The Panchsheel declaration.</li> </ul>		
2	Why did India oppose the international treaty on Nuclear non-proliferation?	2	Understanding
3	“Hegemony as soft power implies the capacity to manufacture consent”. Discuss.	4	HOT
4	Discuss India’s role in Afro-Asian unity during the Nehru’s Era.	4	HOT
5	Why did Nehru regard conduct of foreign relations as an essential indicator of independence? State any two reasons with examples to support your reading.	4	Understanding
6	<p>Read the extract carefully and answer the questions that follow:</p> <p>Some people argue that it is strategically more prudent to take advantage of the opportunities that hegemony creates. For instance, raising economic growth rates requires increased trade, technology transfers and investment, which are best acquired by working with rather than against the hegemony. Thus, it is suggested that instead of engaging in activities opposed to hegemonic power, it may be advisable to extract benefits by operating within the hegemonic system. This is called the bandwagon strategy.</p> <p><b>Question</b></p> <ol style="list-style-type: none"> <li>1. What is prudent during a period of hegemony?</li> <li>2. What benefits can be acquired within the hegemonic system?</li> <li>3. What is the bandwagon strategy?</li> </ol>	(2+2+1=5)	Analytical
7	<p>Study the cartoon given below and answer the following questions:</p>  <p>Questions:</p>	(1+2+2=5)	Analytical

	<p>a) Which country is represented by this mighty soldier?</p> <p>b) Why have the names of so many countries been written on the uniform of the soldier?</p> <p>c) What message does this cartoon convey to the international community?</p>		
<b>8</b>	<p>What was "Operation Iraqi Freedom"? List out its outcome.</p> <p style="text-align: center;">Or</p> <p>Explain "Hegemony as structural Power".</p>	<b>6</b>	Understanding & Evaluation



**ARMY PUBLIC SCHOOL GWALIOR**  
**CLASS -XII**  
**ACADEMIC SESSION 2021-22**  
**WORKSHEET (SELF –ASSESSMENT)**

Subject: Physical Education

Assignment No. : 4

Allotment Date: 18 July 2021

S. NO.	QUESTIONS	MARKS	NATURE
1	<p style="text-align: center;"><b>Part-A</b></p> <p><b>Multiple Choice Questions: (1 marks)</b></p> <p>(A) Poornima trophy is related to which sports? (a) Volleyball                      (b) Tennis (c) Swimming                      (d) Athletics</p> <p>(B) When was the volleyball included in the Commonwealth Games? (a) 1981              (b) 1982              (c) 1984              (d) 1988</p> <p>(c) In which year, the first Asian Games were organised in India? (a) 1951              (b) 1952              (c) 1953              (d) 1954 (b)</p> <p>(D) Jesse Owens Trophy is related to which sports? (a) Football                      (b) Tennis (c) Athletics                      (d) Hockey</p>	1x8=8	Assimilation

	<p>(E) Aga Khan Cup is related to which game?</p> <p>(a) Football (b) Tennis</p> <p>(c) Swimming (d) Hockey</p> <p>(F) Competitions are helpful for the development of</p> <p>(a) Social qualities</p> <p>(b) Selection of players</p> <p>(c) Sports skills</p> <p>(d) All the above</p> <p>(G) Uber Cup is related to:</p> <p>(a) Table Tennis (b) Badminton</p> <p>(c) Lawn tennis (d) None of these</p> <p>(H) Which one of the following components is not included in Khelo India Programme?</p> <p>(a) Playfield development</p> <p>(b) Talent search and development</p> <p>(c) Sports for women</p> <p>(d) To organise cricket competition</p>		
	<p><b>(Part B)</b></p> <p><b>Short Answer type Question (3 Marks)</b></p> <p><b>Answer the following questions in 50 words.</b></p>		
2	Write down any nine tournaments of football?	3	Application
3	Write down a brief note on “ Khelo India” programme?	3	Application
4	Enlist the objectives of physical education and explain any one of	3	Understanding

	them.		& Application
5	Enumerate the objectives of physical education in brief	3	Understanding
<b>Part-C)</b>			
<b>Long Answer type question (5 Marks).</b>			
<b>Answer of the following questions in 100-120 words :</b>			
6	Define physical education and explain its aim and objectives in detail.	5	Understanding & Application
7	Discuss the health-related and administration-related careers in detail.	5	Knowledge
8	Explain in detail the sports media related careers in the field of physical education.	5	High order Thinking
9	Write short notes on any two of the following: (a) Career in book writing. (b) Career in sports photography. (c) Career in sports industry.	5	Understanding & Critical thinking



**ARMY PUBLIC SCHOOL GWALIOR**  
**CLASS -XII**  
**ACADEMIC SESSION 2021-22**  
**WORKSHEET (SELF –ASSESSMENT)**

Subject: Painting

Assignment No. : 4

Allotment Date: 18 July 2021

S.N o.	QUESTIONS	MARKS	NATURE
<b>SECTION: First</b>			
Q.1	<p>Answer the following questions in one sentence:</p> <p>(a) To which school the Raja Anirudha Singh Hara Painting is located –</p> <p>(i) Pahari school of miniature painting</p> <p>(ii) Mughal school of miniature painting</p> <p>(iii) Rajasthani school of miniature painting</p> <p>(iv) Deccan school of miniature painting</p> <p>(b) What is the time period Pahari School of Painting.</p> <p>(i) 16th to 19th century A.D.</p> <p>(ii) 1750 to 10 A.D.</p> <p>(iii) 17th to 18th century A.D.</p> <p>(iv) 1785 to 90 A.D.</p>	1x6=6	Information

(c) Raja Sawant Singh was also known by which name.

- (i) Purushottam Das
- (ii) Kishan Singh
- (iii) Bishan Das
- (iv) Nagri Das

(d) A postal stamp was issued by the Indian Government based on which famous Rajasthani Painting.

- (i) MaruRagini
- (ii) Rasik – Priya
- (iii) Bani – Thani
- (iv) Ragini Pat – Hansika

(e) The Rajasthani Art was developed under which kings-

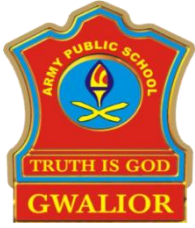
- (i) Nizam
- (ii) Rajput Kings
- (iii) Mughal Emperor
- (iv) None of these

(f) In which medium the Rajasthani miniature painting are made –

- (i) Oil colours
- (ii) Pastel colours
- (iii) Water colours
- (iv) Acrylic colours



<b>Q.2</b>	<p>Answer to be written for each in about 30 words:</p> <p>Evaluate the compositional arrangement of any three of the following in short:</p> <p>Out of following four miniature painting, strictly on the basis of the fundamentals of visual art.</p> <p>(i) Chaugun Players – Jodhpur</p> <p>(ii) Krishna on swing – Bikaner</p> <p>(iii) Krishna with Gopi's – Pahari School</p> <p>(iv) MaruRagini – Mewar</p>	<b>2x3=6</b>	Evaluation
<b>SECTION: Third</b>			
<b>Q.3</b>	<p>Answer to be written for each is about 100 words.</p> <p>Identify relevant painting of the Rajasthani school included in your course of study.</p> <p>(a) Describe the painting of Rajasthani school which is also popularly known as "The Indian Monalisa"</p> <p>(b) Nand, Yashoda and Krishna with Kinsmen going to Vrindavana.</p>	<b>3x2=6</b>	Hot
<b>SECTION: Fourth</b>			
<b>Q.4</b>	<p>Write short notes on any two of the following-</p> <p>Sub school – Jaipur school of painting Basohli Painting</p>	<b>6x1=6</b>	Understanding
<b>SECTION: Fifth</b>			
<b>Q.5</b>	<p>Answer to be written in about 350 words.</p> <p>(a) Write an essay on the origin and development characteristic of the Rajasthani school.</p> <p style="text-align: center;">Or</p> <p>Write the main feature of Pahari miniatures.</p>	<b>6x1=6</b>	Application



**ARMY PUBLIC SCHOOL GWALIOR**  
**CLASS -XII**  
**ACADEMIC SESSION 2021-22**  
**WORKSHEET (SELF –ASSESSMENT)**

**Subject: Work Education**

**Assignment No. : 4**

**Allotment Date: 18 July 2021**

<b>S.No.</b>	<b>QUESTIONS</b>	<b>MARKS</b>	<b>Nature</b>
<b>1</b>	What is the origin state of Warli Art?	<b>2</b>	Information
<b>2</b>	Warli Art is a form of which tribal art?	<b>2</b>	Understanding
<b>3</b>	Till which year the warli art was not recognised properly?	<b>2</b>	Information
<b>4</b>	Which two types of colours are used in Warli art?	<b>2</b>	Understanding
<b>5</b>	Which range of the India are famous for creating Warli art?	<b>2</b>	Information
<b>6</b>	Which type of tradition are shown by using Geometric pattern of Warli art?	<b>2</b>	Understanding