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

Subject: English **Assignment No. : 12**

Allotment Date: 12 March 2022

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	Bring out the importance of calm and calculated thinking as brought out in the story Evans Tries an O-Level.	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)What do you think Jack is trying to tell Jo? (iii) Why did Jo think Roger Skunk was better off with the new smell?	7x2=14	Evaluation

	(iv)Why did Derry go back to Mr Lamb's garden even after opposition? (v)Where did Evans go? (vi)Who was Carter?What did the Governor ask him to do? (vii)How did Gandhiji teach the people a lesson in self-reliance?		

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

Subject: Hindi **Assignment No. : 12**

Allotment Date: 12 March 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	'इंटरनेट वर्तमान युग की मांग ही नही, आवश्यकता बन गया है' विषय पर रचनात्मक लेख लिखिए |	5	Information
2	"सेना में महिलाओं की बढ़ती रूचि " विषय पर फीचर लिखिए|	5	Understanding
3	'डायरी के पन्ने' के आधार पर बताईये कि अज्ञातवास पर जाते समय ऍन फ्रैंक ने बैग में सबसे पहले डायरी क्यों रखी ? 'अतीत के दबे पाँव' पाठ के आधार पर बताईये कि सिन्धु सभ्यता को समाज पोषित क्यों कहा गया है ?	5 =3+2	HOT
4	1 . कहानी को नाटक में कैसे रूपान्तरित किया जा सकता ? 3 2 . "नाटक का रूपांतरण करते समय आने वाली किन्ही चार समस्याओं का उल्लेख कीजिए? 2	5	Interdisciplinary
5	"आधुनिकता की देन – तनाव " विषय पर अनुच्छेद लिखिए|	5	Analytical Skill
6	"हताशा में आशा की किरण ,युवा'" विषय पर आलेख लिखिए|	5	Critical Thinking and Problem Solving
7	'टूटे फूटे खंडहर सभ्यता और संस्कृति के इतिहास के साथ-साथ धडकती जिंदगियों के अनछुए समयों का भी दस्तावेज़ होते हैं'इस कथन का भाव स्पष्ट कीजिए |	5	Evaluation
8	आधुनिक समाज में कौन – सी समस्या सामने आ खड़ी हुई है ?डा . आंबेडकर द्वारा मानवीय दृष्टि के तहत जातिवाद के उन्मूलन के लिए क्या उपाए बताए गए हैं ?	5	Communication Skills

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

Subject: Mathematics **Assignment No. : 12**

Allotment Date: 12 March 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	Evaluate: $\int_0^{\pi/4} \sqrt{(1-sin2x)}dx$	2	Understanding
2	Find the order and degree of the differential equation: $\frac{d^2y}{dx^2} = \left[y + \left(\frac{dy}{dx}\right)^2\right]^{1/4}$.	2	HOT
3	Find the area of a parallelogram whose one side and one diagonal are along the vectors $\hat{\imath} + 2\hat{\jmath} - \hat{k}$. and $2\hat{\jmath} + 5\hat{k}$.	2	HOT
4	Write the Cartesian equation of a line which passes through the point (-2,4,-5) and is parallel to the line $\frac{x+3}{3} = \frac{4-y}{5} = \frac{z+8}{6}$	2	Understanding
5	A pair of coins is tossed once. Event E is 'getting at least one head' and event F is 'getting at most one head'. Are the events E and F independent?	2	Understanding
6	Two cards are drawn at random from a pack of 52 cards one-by one without replacement. What is the probability of getting first card red and second card jack?	2	Understanding

7	Evaluate: $\int \frac{6x+7}{\sqrt{(x-5)(x-4)}}dx$	**3**	Understanding
8	Solve the differential equation: $\frac{dy}{dx} + 2ytanx = sinx; y = 0\ whenx = \pi/3$.	**3**	Information
9	Let $\vec{a}$ = $\hat{\imath}$- $\hat{\jmath}$, $\vec{b}$ = 3 $\hat{\jmath}$-$\hat{k}$ and $\vec{c}$ = $7\hat{\imath} - \hat{k}$. Find a vector $\vec{d}$ which is perpendicular to both $\vec{a}$ and $\vec{b}$and $\vec{c}$. $\vec{d}$ =1.	**3**	Information
10	Find the equation of a line passing through the point (1,2,-4) and perpendicular to two lines $\vec{r}$ = $(8\hat{\imath} - 19\hat{\jmath} + 10\hat{k}.)$ +λ $(3\hat{\imath} - 16\hat{\jmath} + 7\hat{k}.)$ and $\vec{r}$ = $(15\hat{\imath} + 29\hat{\jmath} + 5\hat{k}.)$ +μ $(3\hat{\imath} + 8\hat{\jmath} - 5\hat{k}.)$.	**3**	Understanding
11	Evaluate: $\int_0^{\pi/4} \log(1 + tanx)\ dx$	**4**	HOTS
12	Using method of integration find the area bounded by the curve |x| + |y| =1.	**4**	Analytical Skill
13	Findthe foot of perpendicular from the point (1,2,0) upon the plane x-3y+2z=9. Hence, find the distance of the point (1,2,0) from the given plane.	**4**	Analytical Skill
14	**Case study:** An insurance company believes that people can be divided into two classes; those who are accident prone and those who are not. The company's statistics show that an accident-prone person will have an accident at sometime within a fixed one-year period with probability 0.6, whereas this probability is 0.2 for a person who is not accident prone. The company knows that 20 % of the population is accident prone. Based on the given information, answer the following questions. (i) What is the probability that a new policyholder will have an accident within a year of purchasing a policy? (ii) Suppose that a new policyholder has an accident within a year of purchasing a policy. What is the probability that he or she is accident prone?	**4**	Critical Thinking and Problem Solving

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

Subject: Physics **Assignment No. : 12**

Allotment Date: 12 March 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	Find the wavelength of electromagnetic wave of frequency 5×10^{19} Hz in free space. Gives its two application.	2	Understanding
2	Two nuclei have mass numbers in the ratio 27:125. What is the ratio of their nuclear radii?	2	Evaluation
3	The ground state energy of hydrogen atom is – 13.6 eV. What are the kinetic and potential energies of electron in this state?	2	Information
4	a) State two characteristic properties of nuclear force. b) Two nuclei have mass number in the ratio 1 : 3. What is the ratio of their nuclear densities	2	Understanding
5	Draw a ray diagram showing refraction of light through a glass prism and hence obtain the relation between the refractive index n of the prism, angle of prism and angle of minimum deviation	2	Analytical Skill
6	The radius of innermost electron orbit of a hydrogen atom is 5.3x 10-11 What is the radius of orbit in the second excited state**?**	2	Understanding
7	. Draw a ray diagram showing refraction of light through a glass prism and hence obtain the relation between the refractive index n of the prism, angle of prism and angle of minimum deviation.	3	HOT
8	Draw a plot of potential energy of a pair of nucleons as a function of their separation. Write two important conclusions which you can draw regarding the nature of nuclear forces.	3	Evaluation

S. NO.	QUESTIONS	MARKS	NATURE

9	Find the ratio of energies of photons produced due to transition of an electron of hydrogen atom from its second permitted energy level to the first permitted level and the highest permitted energy level to the first permitted level.	**3**	HOT
10	a)Obtain Bohr's quantization condition for angular momentum of electron orbiting in the n^{th} orbit of hydrogen atom on the basis of the wave picture of an electron using de- Broglie Hypothesis. b)Define Impact parameter.	**3**	Evaluation
11	(a) The mass of a nucleus in its ground state is always less than the total mass of its constituents – neutrons and protons. Explain. (b) Plot a graph showing the variation of potential energy of a pair of nucleons as a function of their separation.	**3**	Information
12	A heavy nucleus X of mass number 240 and binding energy per nucleon 7.6 MeV is split into two fragments Y and Z of mass numbers 110 and 130. The binding energy of nucleons in Y and Z is 8.5 MeV per nucleon. Calculate the energy Q released per fission in MeV.	**3**	Understanding
13	a)The radius of innermost electron orbit of a hydrogen atom is 5.3×10^{-11} what is the radius of orbit in the second excited state? b)Obtain an expression for orbital period (Time period) of electron revolving in nth orbit of hydrogen atom .Also, obtain an expression for frequency.	**5**	Analytical
14	a) Draw a plot showing the variation of photoelectric current with collector potential for different frequency but same intensity of incident radiation. b) Use Einstein's photoelectric equation to explain the observations from this graph. c) What change will you observe, if intensity of incident radiation is changed but the frequency remain the same ?	**5**	Critical thinking and Problem solving

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

Subject: Chemistry **Assignment No. : 12**

Allotment Date: 12 March 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	**Multiple choice questions** 1. According to IUPAC nomenclature, sodium nitroprusside is named as a. Sodium pentacynonitrosyl ferrate (II) b. Sodium pentacynonitrosyl ferrate (III) c. Sodium nitroferricyanide d. Sodium nitroferrocyanide 2. The cell constant of a conductivity cell a. Changes with change of electrolyte b. Changes with change of concentration of electrolyte c. Changes with temperature of electrolyte d. Remains constant for a cell	2	Analytical Skills
2	State Kohlrausch law of independent migration of ions. Also calculate limiting molar conductivity if NaCl	2	Understanding
3	Convert the following: (a) Nitrobenzene to benzoic acid (b) Aniline to benzyl alcohol	2	HOT
4	Define the following terms (a) Homogeneous Catalysis (b) Kraft temperature	2	Interdisciplinary
5	i.The decomposition of dimethyle ether leads to the formation of CH_4, H_2 and CO and the reaction rate is given by rate $=K[CH_3OCH_3]^{3/2}$. The rate of reaction is followed by increase in pressure in a closed vessel, so the rate can also be expressed in terms of partial pressure of dimethyl ether, i.e. rate $= k[p_{CH3OCH3}]^{3/2}$. If the	2	HOT

	pressure is measured in bar and time in minutes, then what are the units of rate and rate constant? (ii) can a reaction have negative activation energy?		
6	.What do you mean by unidentate,didentate and ambidentate ligands?	**2**	Information
7	Write down limitations of Valence Bond Theory.	**3**	Understanding
8	On the bases of VBT predict Geometry and Magnetic nature of $[Co(NH_3)_6]^{3+}$	**3**	Interdisciplinary
9	What are lyophilic and lyophobic sol?Which of these is easily coagulated?	**3**	Information
10	How will you distinguish between acetaldehydes and acetone?	**3**	HOT
11	What is lanthanoid contraction? What is the reason of lanthanoid contraction?	**3**	HOT
12	Write all the isomers of (i) $[Co(NH_3)_6]$ $[Cr(C_2O_4)_3]$ (ii)$[Co(NH_3)_5SO_4]Br$	**3**	Understanding
13	A ketone A(CH_2H_8O) which undergoes a haloform reaction gives compound B on reduction, heating with sulphuric acid gives a compound C which forms mono-ozonide D. D on hydrolysis with zinc dust gives only E. Identify A, B, C, D and E write the reactions involved. How does compound A gives iodoform reaction?	**5**	HOT
14	(i) Mention the factors that affect the rate of a chemical reaction. (ii)A reaction is of second order with respect to a reactant. How is the rate of reaction affected, if the concentration of the reactant is (a) doubled? (b) Reduced to half? (iii) What is the effect of temperature on the rate constant of a reaction?	**5**	Evaluation

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

Subject: Biology **Assignment No. : 12**

Allotment Date: 12 March 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	Why is the polar region not a suitable habitat for tiny humming birds?	02	Information
2	Name two groups of organisms which constitute 'flocs'. Write their influence on the level of BOD during biological treatment of sewage.	02	Understanding
3	Why is a person with cuts and bruises following an accident administered tetanus antitoxin? Give reason.	03	
4	Explain brood parasitism with the help of example.	02	
5	Under polio prevention programme, infants were given polio vaccine on a large scale at regular intervals to eradicate polio from the country.	04	HOT

6	**An** ecologist study an area with population A, thriving on unlimited resources and showing exponential growth, introduced population B and C to the same area. What will be the effect of on the growth pattern of the population A,B and C when living together in the same habitat?	**02**	Interdisciplinary
7	**Explain with the help of suitable examples the three different ways by which organisms overcome their stressful conditions lasting for short duaration.**	**03**	Analytical Skill
8	Human benefit from diversity of life. Give two examples.	**03**	
9	How do normal cells get transformed into cancerous cells? Elaborate giving three examples of inducing agents.	**03**	
10	Microbes can be used to decrease the use of chemical fertilizers and pesticides. Explain how this can be accomplished?	**03**	Critical Thinking and Problem Solving
11	**Discuss the main ideologies crucial in the biological control of diseases and pests.**	**03**	Evaluation
12	Unless the vector and source DNA are cut, fragments separated and joined , the desired recombinant vector molecule cannot be created i. How are the desirable DNA sequence cut? ii. Explain the technique used to separate the cut fragments. iii. Hoe are the resultant fragments joined to the vector DNA	**05**	

	molecules?		
13	Some restriction enzymes break a phosphodiester bond on both the DNA strands, such that only one end of each molecule is cut and these ends have regions of single stranded DNA. BanH1 is one such restriction enzymes which binds at the recognition sequence, 5'-GGATCC-3' and cleaves these sequences just after the 5'-guanine on each strand. (a) What is the objective of this action? (b) Explain how the gene of interest is introduced into a vector.	**05**	Communication Skills

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

Subject: Economics **Assignment No. : 12**

Allotment Date: 12 March 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	"Final goods include only those goods which are consumed by the households". Defend or refute the given statement with valid reason.	2	Information
2	Define Real Gross Domestic Product	2	Understanding
3	"Circular flow principle is based on the assumption that one's expenditure will become other's income." Explain the given statement.	2	HOT
4	What are 'externalities'? State its types with suitable examples.	2	Interdisciplinary
5	If the Real GDP is Rs 400 and Nominal GDP is Rs 450, calculate the Price Index (base = 100).	2	Analytical Skill
6	Discuss briefly the three components of 'Income from Property and Entrepreneurship.'	3	Critical Thinking and Problem Solving
7	Giving reason explain how the following should be treated in estimation of national income: (i) Payment of interest by a firm to a bank (ii) Payment of interest by a bank to an individual (iii) Payment of interest by an individual to a bank	3	Communication Skill
8	Sale of petrol and diesel cars is rising particularly in big cities. Analyse its impact on gross domestic product and welfare.	3	Evaluation Skill
9	If real income is Rs 400 and price index is 105, calculate nominal income	3	Analytical Skill
10	Explain with the help of an example, the basis of classifying goods into final goods and intermediate goods	3	Interdisciplinary
11	Explain the precautions that should be taken while estimating national income by expenditure method	5	Evaluation Skill
12	Explain the circular flow of income in two sector economy with financial market. Use Diagram.	5	Critical Thinking and Problem solving

13	Will the following be included in the domestic product of India? Give reasons for your answer. (a) Profits earned by foreign companies in India. (b) Salaries of Indians working in the Russian Embassy in India. (c) Profits earned by a branch of State Bank of India in Japan. (d) Profit earned by foreign companies in India (e) Salaries of Indians working in Russian embassy in India	5	Hot/Applications

_____X_____

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

Subject: Accountancy **Assignment No. : 12**

Allotment Date: 12 March 2022

S. NO.	QUESTIONS	MARKS	NATURE OF QUESTION
1	Following information has been provided by M/s Achyut Health Care. You are required to calculate the amount of medicines consumed during the year 2020-21: **Particulars** / **Amount (₹)** Stock of medicines as on April 1, 2020 — 15,00,000 Creditors for medicines as on April 1,2020 — 3,50,000 Stock of medicines as on March 31,2021 — 10,00,000 Creditors for medicines as on March31, 2021 — 4,20,000 Cash purchases of medicines during the year 2020-21 — 2,00,000 Credit purchases of medicines during the year 2020-21 — 6,00,000	2	**Application**
2	Distinguish between 'Dissolution of Partnership' and 'Dissolution of Partnership Firm' based on: (i) Settlement of assets and liabilities (ii) Economic relationship	2	**Remembering**
3	Suresh, Ramesh and Tushar were partners of a firm sharing profits in the ratio of 6:5:4. Ramesh retired and his capital after making adjustments on account of reserves, revaluation of assets and reassessment of liabilities stood at Rs.2,50,400. Suresh and Tushar agreed to pay him Rs.2,90,000 in full settlement of his claim. Pass necessary journal entry for the treatment of goodwill. Show workings clearly.	2	**Knowledge**
4	From the following information given by Modern Dance Academy, calculate the amount of Subscription received during the year 2020- 21. (i) Subscription credited to Income & Expenditure A/c for the year ending 31st March ,2021 amounted to Rs.3,00,000 and each member is required to pay an annual subscription of Rs. 3,000. (ii)Subscription in arrears as on 1st April 2020 amounted to Rs. 16,000. (iii) During the year 2020-21, 10 members made partial payment of Rs.26,000 towards subscription, 8 members failed to pay the subscription amount	3	**Problem solving, remembering and analysis**

<table>
<tr><td></td><td>and 5 members paid the subscription amount for the year2021-22.
(iv) During the year 2019-20, 12 members paid the subscription amount for the year 2020-21.
OR
Following information is given by Alchemy Medical College, Library department for the year 2020-21.
<table><tr><th>Particulars</th><th>Amount (₹)</th></tr><tr><td>Books and Journals Fund as on 1.4.2020</td><td>4,50,000</td></tr><tr><td>7% Books and Journals Fund Investments as on 1.4.2020</td><td>4,00,000</td></tr><tr><td>Interest on Books and Journals Fund Investments</td><td>13,000</td></tr><tr><td>Donations for Books and Journals</td><td>20,000</td></tr><tr><td>Books Purchased</td><td>70,000</td></tr><tr><td>General Fund as on 1.4.2020</td><td>10,00,000</td></tr></table>Show the accounting treatment of the above-mentioned items in the Balance Sheet of the Alchemy Medical College as at 31st March,2021.</td><td></td><td></td></tr>
<tr><td>5</td><td>Harihar, Hemang and Harit were partners with fixed capitals of Rs.3,00,000, Rs. 2,00,000 & Rs. 1,00,000 respectively. They shared profits in the ratio of their fixed capitals. Harit died on 31st May, 2020,
whereas the firm closes its books of accounts on 31st March every year. According to their partnership deed, Harit’s representatives would be entitled to get share in the interim profits of the firm on the
basis of sales. Sales and profit for the year 2019-20 amounted to Rs.8,00,000 and Rs.2,40,000 respectively and sales from 1st April, 2020
to 31st May 2020 amounted to Rs. 1,50,000. The rate of profit to sales remained constant during these two years. You are required to:
(i) Calculate Harit’s share in profit.
(ii)Pass journal entry to record Harit’s share in profit.</td><td>3</td><td>Problem solving and computation</td></tr>
<tr><td>6</td><td>Vedesh Ltd. purchased a running business of Vibhu Enterprises for a sum of Rs. 12,00,000. Vedesh Ltd. paid Rs. 60,000 by drawing a promissory note in favour of Vibhu Enterprises., Rs.1,90,000 through
bank draft and balance by issue of 8% debentures of Rs. 100 each at a discount of 5%. The assets and liabilities of Vibhu Enterprises consisted of Fixed Assets valued at Rs. 17,30,000 and Trade Payables
at Rs. 3,20,000.
You are required to pass necessary journal entries in the books of Vedesh Ltd.
OR</td><td>3</td><td>Application and knowledge</td></tr>
</table>

<table>
<tr><td></td><td>Youth Ltd. took a loan of Rs. 15,00,000 from State Bank of India against the security of tangible assets. In addition to principal security, it issued 10,000 11% debentures of Rs. 100 each as collateral security.
Pass necessary journal entries for the above transactions, if the company decided to record the issue of 11% debentures as collateral security and show the presentation in the Balance Sheet of Youth Ltd.</td><td></td><td></td></tr>
<tr><td>7</td><td>Madhav, Madhusudan and Mukund were partners in Jaganath Associates. They decided to dissolve the firm on 31st March 2021.
Pass necessary journal entries for the following transactions after various assets (other than cash) and third-party liabilities have been transferred to realization account:
(i) Old machine fully written off was sold for Rs. 42,000 while a payment of Rs. 6,000 is made to bank for a bill discounted being dishonoured.
(ii) Madhusudan accepted an unrecorded asset of Rs.80,000 at Rs.75,000 and the balance through cheque, against the payment of his loan to the firm of Rs.1,00,000.
(iii) Stock of book value of Rs.30,000 was taken by Madhav, Madhusudan and Mukund in their profit sharing ratio.
(iv) The firm had paid realization expenses amounting to Rs.5,000 on behalf of Mukund.
(v) There was a vehicle loan of Rs. 2,00,000 which was paid by surrender of asset to the bank at an agreed value of Rs. 1,40,000 and the shortfall was met from firm’s bank account.
OR
Gini, Bini and Mini were in partnership sharing profits and losses in the ratio of 5:2:2. Their Balance Sheet as at 31st March, 2021 was as follows:
Balance Sheet as at 31st March,2021
<table><tr><th>Liabilities</th><th>Amount (₹)</th><th>Assets</th><th>Amount (₹)</th></tr><tr><td>Sundry Creditors
Bank Overdraft
Workmen’s Compensation Reserve
Capitals:
Gini 4,60,000
Bini 3,00,000
Mini 2,90,000</td><td>56,500
61,500
32,000
10,50,000</td><td>Cash
Debtors 38,000
Less: Provision For Doubtful Debts (2,300)
Inventories
Machinery
Furniture
Building
Goodwill</td><td>1,17,300
35,700
1,34,000
1,00,000
1,80,000
5,70,000
63,000</td></tr><tr><td></td><td>12,00,000</td><td></td><td>12,00,000</td></tr></table>
On 31st March, 2021, Gini retired from the firm. All the partners agreed to revalue the assets and liabilities on the following basis:
(i) Bad debts amounted to Rs. 5,000. A provision for doubtful debts was to be maintained at 10% on debtors.
(ii) Partners have decided to write off existing goodwill.</td><td>5</td><td>Application and knowledge</td></tr>
</table>

	(iii)Goodwill of the firm was valued at Rs. 54,000 and be adjusted into the Capital Accounts of Bini and Mini, who will share profits in future in the ratio of 5:4. (iv)The assets and liabilities valued as: Inventories Rs.1,30,000; Machinery Rs. 82,000; Furniture Rs.1,95,000 and Building Rs. 6,00,000. (v) Liability of Rs.23,000 is to be created on account of Claim for Workmen Compensation. (vi)There was an unrecorded investment in shares of Rs. 25,000. It was decided to pay off Gini by giving her unrecorded investment in full settlement of her part payment of Rs. 28,000 and remaining amount after two months. Prepare Revaluation Account and Partners' Capital Accounts as on 31st March, 2021.		
8	Yogadatra Ltd. (pharmaceutical company) appointed marketing expert, Mr. Kartikay as the CEO of the company, with a target to penetrate their roots in the rural regions. Mr. kartikay discussed the ways and means to achieve target of the company with financial, production and marketing departmental heads and asked the finance manager to prepare the budget. After reviewing the suggestions given by all the departmental heads, the finance manager proposed requirement of an additional fund of Rs.52,50,000. Yogadatra Ltd. is a zero-debt company. To avail the benefits of financial leverage, the finance manager proposed to include debt in the capital structure. After deliberations, on April1,2020, the board of directors had decided to issue 6% Debentures of Rs.100 each to the public at a premium of 5%, redeemable after 5 years at Rs.110 per share. **You are required to answer the following questions:** (i) Calculate the number of debentures to be issued to raise additional funds. (ii) Pass Journal entry for the allotment of debentures. (iii)Pass Journal entry to write off loss on issue of debentures. (iv)Calculate the amount of annual fixed obligation associated with debentures. (v) Prepare Loss on Issue of Debentures Account.	**5**	**Application and knowledge**
9	From the following Receipts and Payments Account and additional information provided by Ramanath Club, Prepare Income and Expenditure Account for the year ending on 31st March 2021. **Receipts and Payments Account** **for the year ending 31st March, 2021**	**5**	**Problem solving**

Receipts	Amount (₹)	Payments	Amount(₹)
To Balance b/d	48,000	By Salaries and Wages:	
To Subscription	95,000	2019-20 10,600	
To Entrance Fee	1,56,000	2020-21 1,03,200	1,13,800
To Locker rent	50,000	By Sundry expenses	47,000
To Interest on 8% govt. Securities	5,400	By Refreshment expenses	60,400
To Revenue from refreshment	52,000	By Telephone bill	5,000
To Sale of old newspapers	4,600	By Rent & Rates	24,000
To Sale of furniture (Book value: ₹ 11,000)	12,000	By Library Book	25,000
		By 8% Govt. Securities	30,000
		By Honorarium to Secretary	5,000
		By Balance c/d	1,12,800
	4,23,000		4,23,000

Additional Information:(i) Subscription received during the year includes Rs. 25,000 as donation for Building.
(ii)Telephone bill unpaid as on March 31, 2020 was Rs. 4,000 and on March 31, 2021 Rs. 2,600.
(iii) Value of 8% Government Securities on March 31, 2020 was Rs. 80,000.
(iv)Additional Government Securities worth Rs. 30,000 were purchased on March 31, 2021.

Part B

10	State whether the following transactions will result in inflow, outflow or no flow of cash while preparing cash flow statement**:** (i) Decrease in outstanding employees benefits byRs.3000 (ii) Increase in Current Investment byRs. 6,000.	**2**	**Remembering, understanding**
11	From the following details provided by Kumud Ltd., prepare Comparative Statement of Profit & Loss for the year ended 31st March 2021:	**3**	**Application**

Particulars	31.03.20 (₹)	31.03.21 (₹)
Revenue from operations	30,00,000	35,00,000
Other Income	3,00,000	4,50,000
Cost of materials Consumed	20,00,000	23,00,000
Other Expenses	1,00,000	1,20,000
Tax rate	40%	40%

From the following Balance Sheets of Vinayak Ltd. as at 31st March,2021,
Prepare a Common-size Balance Sheet. Vinayak Ltd.
Balance Sheet as on 31st March, 2021

Particulars	Note no.	31.3.2021 (₹)	31.3.2020 (₹)
I EQUITY AND LIABILITIES			
1. Shareholder's Funds:			
a. Share Capital		30,50,000	20,00,000
b. Reserve and Surplus		2,80,000	6,00,000
2. Current Liabilities:			
a. Trade Payable		6,70,000	4,00,000
Total		40,00,000	30,00,000
II ASSETS			
1. Non-Current Assets:			
a. Fixed Assets:			
i. Tangible Assets		16,00,000	12,00,000
ii. Intangible Assets		2,00,000	3,00,000
2. Current Assets			
a. Inventories		8,00,000	3,00,000
b. Trade Receivables		12,00,000	10,00,000
c. Cash and Cash Equivalents		2,00,000	2,00,000
Total		40,00,000	30,00,000

12	On the basis of information given by Aradhana Ltd., prepare Cash Flow Statement for the year ending 31st March, 2021: Aradhana Ltd. Balance Sheet as on 31st March, 2021	**5**	**Knowledge, application and understanding**

Particulars	Note No.	31st March, 2020	31st March, 2021
I. Equity and Liabilities			
1. Shareholder's Funds			
(a) Share Capital		5,00,000	7,30,000
(b) Reserves and Surplus	1	3,50,000	3,70,000
2. Non-current Liabilities			
Long-term Borrowings	2	4,00,000	2,00,000
3. Current Liabilities			
(a) Trade Payables	3	3,60,000	4,60,000
(b) Short Term provisions	4	3,25,000	3,20,000
Total		19,35,000	20,80,000
II. Assets			
1. Non-current Assets			
(a)Fixed Assets			
(i) Tangible Assets	5	4,50,000	5,00,000
(ii) Intangible Assets	6	3,10,000	3,02,000
(b)Long-term Loans and Advances		4,00,000	4,30,000
2. Current Assets			
(a) Inventories		2,70,000	2,90,000
(b) Trade Receivables		2,40,000	2,60,000
(c) Cash and Cash Equivalents		2,65,000	2,98,000
Total		19,35,000	20,80,000

Note to Accounts

Particulars	31st March 2020	31st March 2021
1. Reserves and Surplus		
Statement of Profit and loss	3,50,000	3,70,000
2. Long-term Borrowings		
10% Debentures	4,00,000	2,00,000
3. Trade Payables		
Creditors	2,40,000	2,60,000
Bills Payable	1,20,000	2,00,000
	3,60,000	4,60,000
4. Short-Term Provisions		
Provision for Tax	3,25,000	3,20,000
5. Tangible Fixed Assets		
Machinery	5,50,000	6,60,000
Less: Provision for Depreciation	1,00,000	1,60,000
	4,50,000	5,00,000
6. Intangible Fixed Assets		
Patents	3,10,000	3,02,000

Additional Information:

1. Debentures were redeemed on 1st April,2020.
2. Tax paid during the year Rs.2,80,000.

****

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

Subject: Business Studies **Assignment No. : 12**

Allotment Date: 12 March 2022

S. No.	Questions	Marks	Nature of question
1	An organisation provides security services. It requires such candidates who are reliable and don't leak out the secrets of their clients. What step should be incorporated in selection process?	2	Knowledge
2	Name the financial instrument which may be used in the following situations: (i) A company needs funds to meet floatation cost in order to issue equity shares in the market. (ii) The instrument that is issued during the period of tight liquidity when the deposit growth of bank is slow but demand for credit is high.	2	Remembering
3	'Saurashtra' is a company involved in the export of indigenous food products like chutneys and pickles. it has tied up with the small farmers in various states for sourcing of fruits and vegetables. In this way it helps the small farmers to sell their produce at reasonable rates. The company follows a practice where only significant deviations from a budget or plan are brought to the attention of management. The degree of deviations allowed in different categories in the budget are well defined in advance, along with the appropriate levels of managements who will respond to the deviations in question. For example, a deviation of Rs. 20,000 or more in purchase costs will be reported to the concerned department manager. In context of the above case: 1. Identify the principle of management control adopted by the company. State the belief underlying this principle.	2	Knowledge
4	Ramesh is working under the guidance of Harish, a carpenter. For the last three years to learn the different skills of this job. Name and explain the method of training Ramesh is Undergoing.	2	Understanding
5	A behaviour study was done on total of 100 employees of an organization. Group A (of 50 employees) were appreciated by the manager for their work and initiative for new idea. All these employees were given option of flexible working	3	Analysis and understanding

	hours and were paid wages at a higher piece rate. On the other hand, Group B (of remaining 50employees) was criticized for their poor performance. Their increments were stopped and they were paid wages at a lower piece rate. (a) Identify and explain the feature of motivation highlighted in the above case. (b) What type of leadership is followed by the manager? Justify your answer.		
6	State the importance of directing. Or Explain any three features of formal communication.	3	Analysis and remembering
7	In a meeting, General manager is of the view that profit maximization is the main objective of financial management, while you as a finance manager believe that - wealth maximization is the most important objective. Justify your position to convince the board member by giving suitable reasons.	3	Analysis and understanding
8	'A.S. Ltd.' is a large company engaged in assembly of air conditioners. Recently the company had conducted the 'Time' and 'Motion' study and concluded that on an average a worker can assemble ten air-conditioners in a day. The target volume of the company in a day is assembling of 1,000 units of air-conditioners. The company is providing attractive allowances to reduce labour turnover and absenteeism. All the workers are happy. Even then the assembly of air-conditioners per day is i800 units only. To find out the reason the company compared actual performance of each worker and observed through C.C.T.V. that some of the workers were busy is gossiping. 1. Identify the function of management discussed above. 2. State those steps in the process of the function identified which are discussed in the above paragraph.	3	Remembering
9	A company x Ltd. is setting up a new plant in India for manufacturing auto components. India has highly competitive and cost-effective production base in this sector. X Ltd. is planning to capture about 40% of the market share in India and also export to the tune of at least $5 million in about 2 years of its planned operations. To achieve these targets, it requires a highly trained and motivated workforce. You have been retained by the company to advise it in this matter. (i) which sources of recruitment the company should rely upon? (ii) Which methods of training should company initiate?	5	Understanding
10	Enumerate any five rights of a consumer under the Consumer Protection Act, 2019. OR Enumerate any five responsibilities of a Consumer Protection Act, 2019.	5	Understanding
11	Explain the trading procedure on a stock exchange.	5	Remembering and understanding
12	Surya Ltd. is manufacturing steel at its plant in India. It is	5	Analysis and

	enjoying a buoyant demand for its products as economic growth is about 7% to 8% and the demand for steel is growing. Therefore, it is planning to set-up a new steel plant to take benefit of such trends in demand. It is estimated that such an expansion will require about ` 5,000 crore to set-up and about ` 500 crore of working capital. As the finance manager of the company, state any three factors that would be considered while determining the capital structure for the new venture. Or The Return on Investment (RoI) of a company ranges between 10-12% for the past three years. To finance its future fixed capital needs, it has the following options for borrowing debt. Option 'A' Rate of interest 9% Option 'B' Rate of interest 13% Which source of debt, 'Option A' or 'Option B', is better? Give reason in support of your answer. Also state the concept being used in taking the decision. **********		remembering

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

Subject: History **Assignment No. : 12**

Allotment Date: 12 March 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	**Part- A** *Answer the following very short type questions:* (a) Examine the idea of Sulh-i-Kul as the cornerstone of Akbar's enlightened rule. (b) Why did the Fifth Report become the basis of intense debate in England? (c) Why did Gandhi start Non-cooperation Movement? Why was it withdrawn? (d) Why some of the members of Constituent Assembly were in favour of strong Centre?	**(4x3=12)**	Informative and Understanding
2	**Part- B** *Answer the following questions in detail:* "The granting of titles to the men of merit was an important aspect of Mughal polity". Explain. OR Examine the life in Harem or domestic world of the Mughals.	**6**	Evaluating
3	What did the rebels want? To what extent did the vision of different social groups differ? OR Who were Santhals ? Why did they revolt against British?	**6**	HOT
4	In what way did Mahatma Gandhi transform the nature of the national movement? OR Why did Gandhi start Non-cooperation Movement? Why was it withdrawn?	**6**	Informative & Evaluating
5	**Part- C** Read the passage given below carefully and answer the questions that follow: **In praise of taswir** Abu'l Fazl held the art of painting in high esteem. Drawing the likeness of anything is called taswir. His Majesty from his earliest youth, has shown a great predilection for 35 this art, and gives it every encouragement, as he looks upon it as a means both of study and amusement. A very large number of	**1+1+2=4**	Application & Critical Analysis

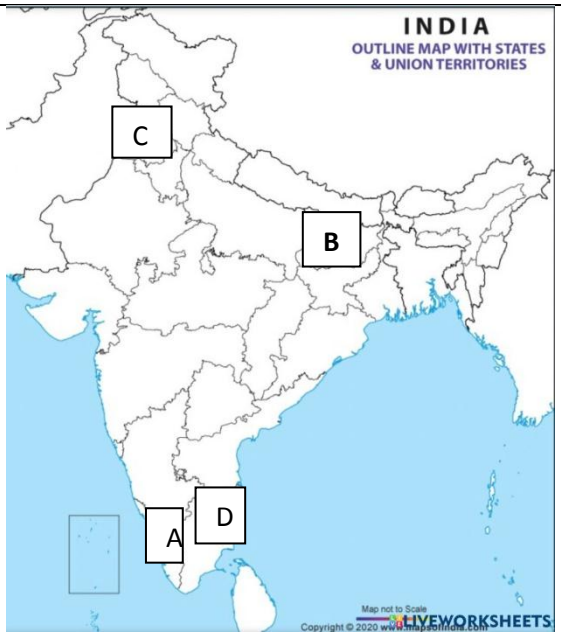
	painters have been set to work. Each week, several supervisors and clerks of the imperial workshop submit before the emperor the work done by each artist, and His Majesty gives a reward and increases the monthly salaries of the artists according to the excellence displayed. … Most excellent painters are now to be found, and masterpieces, worthy of a Bihzad, may be placed at the side of the wonderful works of the European painters who have attained worldwide fame. The minuteness in detail, the general finish and the boldness of execution now observed in pictures are incomparable; even inanimate objects look as if they have life. More than a hundred painters have become famous masters of the art. This is especially true of the Hindu artists. Their pictures surpass our conception of things. Few, indeed, in the whole world are found equal to them. 1. Why did Abu'l Fazl consider the art of painting important? 2. How did he seek to legitimise this art? 3. Why was painting a bone of contention between the emperor and the orthodox Islamic group?		
6	Read the given passage carefully and answer the questions that follow: **What should the Qualities of a National Language be?** A few months before his death, Mahatma Gandhi reiterated his views on, the language question: This Hindustani should be neither Sanskritised Hindi nor Persianised Urdu but a happy combination of both. It should also freely admit words wherever necessary from the different regional languages and also assimilate words from foreign languages, provided that they can mix well and easily with our national language. Thus, our national language must develop into a rich and powerful instrument capable of expressing the whole gamut of human thought and feelings. To confine oneself of Hindi or Urdu would be a crime against intelligence and the spirit of patriotism. **Questions:-** Q1. Which language was supported by Mahatma Gandhi as the national language and why? Give any two reasons. Q2. What kind of language did he want? Write any four points. Q3. What did Mahatma Gandhi consider against patriotism and loyalty?	**1+2+1=4**	Application & Critical Analysis
7	**PART-D** **(Map Question)** On the given political map of India mark and name any two places which were annexed by the British under the Doctrine of Lapse Policy of Lord Dalhousie.	**1+1=2**	Identification

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

Subject: Political Science **Assignment No. : 12**

Allotment Date: 12 March 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	**Part-A** Very Short Questions: (a) Highlight any two features of Jan Sangh Party. (b) Mention any two factors that led to the rise of Chinese Economy? (c) What are the principles on which 'Integral Humanism' presented by Pandit Deendayal Upadhyaya? OR State any two effects of Emergency on the functioning of mass media? (d) South Asia stands for diversity in every sense yet constitutes one geo-political state. Do you agree with the statement? Give two reasons for you answer? (e) What do you mean by Grand Alliance? (f) Explain two major causes of Globalization? (g) Explicate two features of a coalition government. (h) What were the main reasons behind the split of congress party?	**(8x2=16)**	Informative and Understanding
2	**Part-B** Describe any six negative consequences of Globalization.	**4**	Evaluating
3	Describe various issues regarding the national emergency of 1975 in India.	**4**	Understanding and HOT
4	In the given political outline map of India, four places are marked as (A), (C), (D) and (E). Identify them on the basis of the information given below:	**4**	Identification

	 (a) The state where the Congress remained in power during 1952-67 (b) The state where C. Natarajan became the Chief Minister in 1967. (c) The first state where the first non- Congress Government was formed by E.M.S. Namaboodiripad. (d) The state which faced the most acute food crisis in 1965-1967.		
5	**Part- C** What are the contentious issues between India and China? What efforts have been made to resolve this? OR Evaluate coalition politics in India?	**6**	Evaluating
6	Explain the emerging trends in Indian Politics after 1990. OR Write down the social and ideological base of BJP.	**6**	HOT

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

Subject: Painting **Assignment No. : 12**

Allotment Date: 12 March 2022

S.NO	QUESTIONS	MARKS	NATURE
1.	How far has the painter been successful in depicting the subject matter of the painting 'Meghdoot' from Bengal School. Give your appropriate reasons based on the aesthetical parameters?	**2 Marks**	**Understanding**
2.	Name two graphics prints from your course of study which shows composition based on human figures also write about the name of the method nd material used for making these prints.	**2 Marks**	**Information**
3.	Mention the name of any two artists Bengal schoolof artand their works.	**2 Marks**	**Understanding**
4.	Write the title of the artwork done by each of the following Contemporary (Indian Artists) included in your course of study 1. RamgopalVijayvargiya 2. Ramkinkarvaij 3. SomnathHore 4. Anupamsud	**2 Marks**	**Information**
5.	Which human life-values and emotions are shown in any of the following art-works of the Contemporary (Modern) Indian Art? Explain in short.	**2 Marks**	**Understanding**
6.	Highlight the aesthetic aspects of the famous painting 'Haldigrinders'done by Amrita Shergil.	**2 Marks**	**Information**
7.	How did the Indian painters and sculptures contribute to the National Freedom Movement? Describe in detail with appropriate examples?	**3 Marks**	**Understanding**
8.	How far has the painter been successful in depicting the subject matter of the painting 'Shiva and Sati' from Bengal School. Give your appropriate reasons based on the aesthetical parameters?	**4 Marks**	**Information**

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

Subject: Physical Education **Assignment No. : 12**

Allotment Date: 12 March 2022

S.NO.	QUESTIONS	MARKS	NATURE
Part-A	Answer the following questions in 15 to 20 words:	1X8=8	
1.	What is fartlek training.	1	Remembering
2.	What do you mean by endomorph?	1	Remembering
3.	What do you mean by self esteem?	1	Remembering
4.	Make a list of soft tissue injury.	1	Remembering
5.	Enlist two contraindication of Bhujangasana	1	Remembering
6.	What do you mean by personality?	1	Application
7.	What is disability etiquette?	1	Remembering
8.	What is the first aid?	1	Remembering
Part-B	Answer the following questions in 60 to 90 words:	3x4=12	
1.	Discuss any two methods of improving endurance.	3	Knowledge
2.	Differentiate between adduction and abduction.	3	Understanding
3.	What do you mean by oxygen intake and oxygen uptake?	3	Knowledge
4.	Differentiate between maximum strength and explosive strength	3	Understanding
Part-C	Answer the following question in 150 to 180 words	5x4=20	
1.	Suggest various methods for flexibility training to improve the optimal flexibility.	5	Understanding
2.	Define motivation. Elucidate any five techniques of motivation.	5	Application
3.	Explain different types of coordinative ability	5	Knowledge
4.	Explain in detail the effects of training on respiratory system	5	Understanding