

ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: ENGLISH CORE, Teacher's Name: Ms. Shradha Gulati



1.	Revise the work done in class.	
2.	Prepare the Project as per CBSE guidelines discussed in class.	
3.	Investigatory Project Topics - XII From Flamingo (Reader) 1. Impact of Fear and Phobia on Adolescent Behavior *(Based on Deep Water) – Investigate how personal fears affect decision-making and confidence among teenagers. 2. Old Age in Urban India: A Study of Emotional Disconnect *(Based on My Mother at Sixty-six) – Survey-based project examining how today's youth perceive aging and elderly care. 3. Role of Silence and Mindfulness in Academic Performance *(Based on Keeping Quiet) – Investigate how practices like meditation impact focus and anxiety in students.	
4.	Changing Beauty Standards and Their Impact on Youth *(Based on A Thing of Beauty) – A comparative study of media-driven vs. nature-based perceptions of beauty.	
5.	Consumerism and the Illusion of Happiness in Teen Life *(Based on The Rattrap) – A sociological inquiry into how materialism influences students' aspirations and lifestyle.	
6.	The Changing Role of Women: Then and Now *(Based on Aunt Jennifer's Tigers) – A historical and contemporary investigation into women's freedom of expression and social roles.	
7.	Mother Tongue and National Identity: A Study of Language Loss in Modern India *(Based on The Last Lesson) – Explore how regional languages are being sidelined in favor of English and Hindi.	

	<p>From Vistas (Supplementary Reader)</p> <ol style="list-style-type: none"> 1. Escapism in Modern Youth: Virtual Worlds and Lost Reality *(Based on The Third Level) – Investigate the psychological reasons behind teenagers' escapism through technology and fiction. 2. Rights of Animals: The Ethics of Captivity and Animal Performances *(Based on The Tiger King) – Explore changing views on animal rights, zoos, and wildlife tourism in India. 3. Stereotypes and Social Expectations: A Study on Youth Aspirations *(Based on Should Wizard Hit Mommy?) – Investigate how societal expectations shape the career choices and behaviors of teenagers. 4. The Status of the Marginalized: An Inquiry into Modern Social Discrimination *(Based on The Enemy) – A project exploring how we perceive "the other" (migrants, refugees, prisoners of war, etc.) in contemporary society. 5. Challenges Faced by the Physically Impaired in the Indian Education System *(Based on On the Face of It) – A case study on access, inclusion, and empathy in mainstream schools and colleges. 	
8.	<p>Kindly note for English viva</p>	
	<ol style="list-style-type: none"> 1. One project file (spiral bound) to be submitted by the entire group. 2. Layout with name of all group members should be clearly mentioned. 3. Roll nos can be hand written once allotted. 4. On the day of viva, English notebook, duly completed, will be carried by every individual. 5. Viva will be related to project as well as the English syllabus. 	
	<p>In case of any doubt/query connect with your respective teacher.</p>	



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: English, Teacher's Name: Ms. Shradha Gulati

Topic: Guidelines for Project Work

	<p style="text-align: center;">TITLE</p> <ul style="list-style-type: none">• SCHOOL NAME:• SCHOOL ADDRESS:• SCHOOL CODE :62009• SCHOOL AFFILIATION No:• STUDENT NAME:• CLASS & SECTION:• BOARD ROLL No: <ul style="list-style-type: none">• STUDENT NAME:• CLASS & SECTION:• BOARD ROLL No:	
	<p style="text-align: center;"><u>Pg1</u> INDEX <u>Pg 2</u> ACKNOWLEDGEMENT <u>Pg3</u> STATEMENT OF PURPOSE</p>	
	<p style="text-align: center;">Pg 4</p> <p style="text-align: center;">CERTIFICATE OF COMPLETION</p> <p>This is to certify that (NAME) of class _____ has completed this project titled _____ under the guidance of the English teacher (TEACHER'S NAME) in partial fulfillment of the requirement of CBSE class XII ASL project.</p> <p>It is the original work derived from his/her sincere efforts and enthusiasm and was carried out in the Academic session 2023-24s.</p> <p>STUDENTS' NAME & SIGNATURE</p> <p>TEACHER'S NAME & SIGNATURE</p>	

Pg5

ACTION PLAN FOR PROJECT COMPLETION AND TIME LINE

Pg6

SCRIPT/ QUESTIONNAIRE

Pg7 to Pg 10

REPORT/ESSAY in 800-1000 words

Pg 11

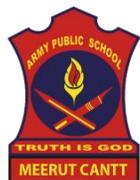
STUDENT'S REFLECTION

Pg 12

PHOTOGRAPHS

Pg 13

LIST OF RESOURCES/BIBLIOGRAPHY



ARMY PUBLIC SCHOOL MEERUT CANTT

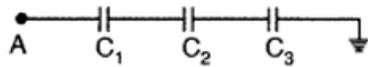
[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: Physics, Teacher's Name: Mr. Vir Singh

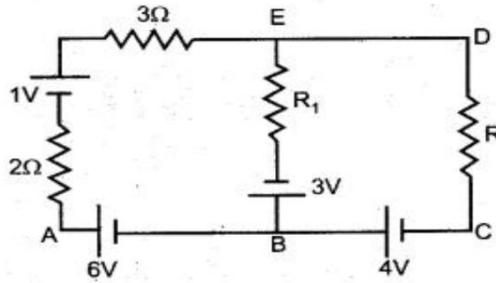
1.	The unit of electric flux is: a) $V \cdot m$ b) $N \cdot m^2/C$ c) C/m^2 d) N/C	
2.	The force between two charges is F . If the distance between them is doubled, the force becomes: a) $F/2$ b) $F/4$ c) $2F$ d) $4F$	
3.	Which of the following statements is true about electric field lines? a) They start from negative charge and end at positive charge. b) They form closed loops. c) They never intersect each other. d) They are always straight lines.	
4.	According to Gauss's Law, the net electric flux through a closed surface depends on: a) Shape of the surface b) Size of the surface c) Charge enclosed by the surface d) Position of the charge outside the surface	
5.	The potential at a point due to a point charge q at a distance r is given by: a) $V = q/r$ b) $V = kq/r$ c) $V = kq/r^2$ d) $V = q/(4\pi\epsilon_0 r^2)$	
6.	The capacitance of a parallel plate capacitor with a dielectric of dielectric constant K fully filling the space between the plates becomes: a) C/K b) KC c) C d) Zero	
7.	When the plates of a charged parallel plate capacitor are separated further apart: a) Capacitance increases b) Capacitance decreases	

	c) Capacitance remains unchanged d) Capacitance becomes zero	
8.	The resistivity of a conductor: a) increases with temperature b) decreases with temperature c) does not change with temperature d) becomes zero at high temperature	
9.	What is the angle between the directions of electric field at any (i) axial point and (ii) equatorial point due to an electric dipole?	
10.	Two-point charges q_1 and q_2 are placed close to each other. What is the nature of the force between them when: (i) $q_1q_2 < 0$ and (ii) $q_1q_2 > 0$?	
11.	Name the quantity with unit J/C. Is it a scalar or vector quantity	
12.	Two-point charges placed at a distance r in air exert a force F on each other. At what distance will these charges experience the same force F in a medium of dielectric constant K ?	
13.	Two charges $+10\mu\text{C}$ and $-20\mu\text{C}$ are placed 15 cm apart. At what point on the line joining the two charges is the electric potential zero?	
14.	A proton is placed in a uniform electric field directed along the positive X-axis. In which direction will it tend to move?	
15.	If the radius of the Gaussian surface enclosing a charge is halved, how does the electric flux through the Gaussian surface change?	
16.	What is the work done in moving a test charge q through a distance of 1 cm along the equatorial axis of an electric dipole?	
17.	A hollow metal sphere of radius 5 cm is charged such that the potential on its surface is 10 V. What is the potential at the centre of the sphere?	
18.	Derive the expression for the electric potential at any point along the axial line of an electric dipole	
19.	Two-point charges $4Q$, Q are separated by 1m in air. At what point on the line joining the charges is the electric field intensity zero?	
20.	A slab of material of dielectric constant K has the same area as that of the plates of a parallel plate capacitor but has the thickness $d/2$, where d is the separation between the plates. Find out the expression for its capacitance when the slab is inserted between the plates of the capacitor.	
21.	Calculate the potential difference and the energy stored in the capacitor C_2 in the circuit shown in the figure. Given potential at A is 90 V, $C_1 = 20 \mu\text{F}$, $C_2 = 30 \mu\text{F}$ and $C_3 = 15 \mu\text{F}$.	



22. Plot a graph showing the variation of coulomb force (F) versus $1/r^2$, where, r is the distance between the two charges of each pair of charges ($1 \mu\text{C}$, $2 \mu\text{C}$) and ($1 \mu\text{C}$, $-3 \mu\text{C}$). Interpret the graphs obtained.

23. Use Kirchhoff's rules to determine the potential difference between the points A and D. When no current flows in the arm BE of the electric network shown in the figure below:



Following questions are having two statements one labelled as Assertion (A) and the other labelled as Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.

- (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 and R is also false

24. Assertion (A): In a non-uniform electric field, a dipole will have translatory as well as rotatory motion.
 Reason (R): In a non-uniform electric field, a dipole experiences a force as well as torque

25. Assertion : If the distance between parallel plates of a capacitor is halved and dielectric constant is three times, then the capacitance becomes 6 times.
 Reason : Capacity of the capacitor does not depend upon the nature of the material.

26. Assertion : The total charge stored in a capacitor is zero.
 Reason : The field just outside the capacitor is σ/ϵ_0 . (σ is the charge density).

27. Assertion : Two equipotential surfaces cannot cut each other.
 Reason : Two equipotential surfaces are parallel to each other.

28. Assertion : Electric field inside a conductor is zero.
 Reason: The potential at all the points inside a conductor is same.

29. Assertion : Work done in moving a charge between any two points in an electric field is independent of the path followed by the charge, between these points.
 Reason: Electrostatic force is a non conservative force.

30.	<p>Assertion : Polar molecules have permanent dipole moment.</p> <p>Reason : In polar molecules, the centres of positive and negative charges coincide even when there is no external field.</p>	
-----	--	--

1. Revise the topics taught.
2. Do the Worksheet given in Homework Notebook
3. Create a working model of a solar-powered device and write a 3–5 page report explaining its design, materials used, physics principles involved, and working.

Criteria	Excellent (4)	Good (3)	Satisfactory (2)	Needs Improvement (1)
Design & Structure	Innovative, neat, stable, and functional model with accurate dimensions and fine craftsmanship.	Good design, stable, functional, and neatly assembled with minor imperfections.	Basic design, functional but lacks neatness or precision in construction.	Poorly assembled, unstable, inaccurate or incomplete structure.
Materials Selection & Use	Appropriate, eco-friendly, and effective materials are used creatively and efficiently.	Materials are mostly appropriate and used effectively.	Materials used are acceptable but lack efficiency or suitability in some parts.	Inappropriate or inefficient materials affecting model performance.
Physics Concepts Application	Excellent understanding and clear application of physics principles (greenhouse effect, reflection, insulation).	Good understanding and application of key physics principles.	Some understanding of physics concepts but with minor errors or omissions.	Misapplication or poor understanding of core physics principles.
Functionality & Working	Fully functional, demonstrates cooking capability effectively with efficient heat retention.	Mostly functional, demonstrates key working principles with minor inefficiencies.	Limited functionality or requires external help to demonstrate principles.	Non-functional or demonstrates working poorly.
Report Quality (Clarity & Depth)	Well-structured, clear, comprehensive report covering design, materials, principles, and working in detail.	Good report covering all necessary aspects with minor errors or gaps.	Report is somewhat complete but lacks clarity or depth in explanations.	Report is incomplete, unclear, or lacks important details.
Creativity & Innovation	Highly creative, with innovative touches or improvements over basic solar cooker design.	Some creative elements or improvements present.	Basic design, minimal or no creativity.	No creativity or originality, copy of standard design.
Presentation & Explanation	Clear, confident, and thorough presentation with excellent explanation of model and principles.	Good presentation and explanation with minor gaps.	Basic presentation, some confusion or lack of clarity in explanation.	Poor presentation, lacks explanation, or unable to answer questions properly.



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: CHEMISTRY(PHYSICAL CHEMISTRY) (Homework)

Topic: PREVIOUS YEAS QUESTIONS, Teacher's Name: Ms. Sonia Chopra

QNO	Question	Internal Marks
1.	Q1 What is mole fraction? Q2 What is rate law?	1 each
2.	Q3. What do you understand by “colligative properties”? Q4. Why is the vapour pressure of a solution of glucose in water lower than that of water? Q5. State any two characteristics of ideal solutions. Q6 Some liquids on mixing form “azeotropes”. What are azeotropes? Q7. Define molal elevation constant or ebullioscopy constant. Q8. What is “reverse osmosis” ?	2 each
3	Q9. Derive an equation to express that relative lowering of vapour pressure for a solution is equal to the mole fraction of the solute in it when the solvent alone is volatile. Q10. State Raoult's law for the solution containing volatile components. What is the similarity between Raoult's law and Henry's law? Q11. Boiling point of water at 750 mm Hg is 99.63oC. How much sucrose is to be added to 500g of water such that it boils at 100 degrees Celsius? Q12. 18g of glucose, C ₆ H ₁₂ O ₆ (Molar Mass=180gmol ⁻¹)is dissolved in 1kg of water in a saucepan. At what temperature will this solution boil?(K _b for water=0.52Kkg mol ⁻¹ , boiling point of pure water = 373.15 K) Q13. After removing the outer shell of the two eggs in dil. HCl, one is placed in distilled water and the other in a saturated solution of NaCl . What will you	3 EACH

(i) Methanol and acetone. (ii) Chloroform and acetone.

(iii) Nitric acid and water. (iv) Phenol and aniline.

6. Colligative properties depend on _____.

(i) the nature of the solute particles dissolved in solution.

(ii) the number of solute particles in solution.

(iii) the physical properties of the solute particles dissolved in solution.

7. the nature of solvent particles. At a given temperature, osmotic pressure of a concentrated solution of a substance

_____.

(i) is higher than that at a dilute solution.

(ii) is lower than that of a dilute solution.

(iii) is same as that of a dilute solution.

(iv) cannot be compared with osmotic pressure of dilute solution.

8. Which of the following statements is false?

(i) Two different solutions of sucrose of same molality prepared in different solvents will have the same depression in freezing point.

(ii) The osmotic pressure of a solution is given by the equation $\Pi = CRT$ (where C is the molarity of the solution).

(iii) Decreasing order of osmotic pressure for 0.01 M aqueous solutions of barium chloride, potassium chloride, acetic acid and sucrose is $BaCl_2 > KCl > CH_3COOH > \text{sucrose}$.

9. According to Raoult's law, the vapour pressure exerted by a volatile component of a solution is directly proportional to its mole fraction in the solution Which of the following statements is false?

(i) Units of atmospheric pressure and osmotic pressure are the same.

(ii) In reverse osmosis, solvent molecules move through a semipermeable membrane from a region of lower concentration of solute to a region of higher concentration.

(iii) The value of molal depression constant depends on nature of solvent.

(iv) Relative lowering of vapour pressure, is a dimensionless quantity.

10. Value of Henry's constant K_H _____.

(i) increases with increase in temperature. (ii) decreases with increase in

temperature.

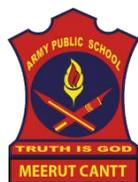
(iii) remains constant.
decreases.

(iv) first increases then

11. The value of Henry's constant K_H is _____.

(i) greater for gases with higher solubility. (ii) greater for gases with lower solubility.

(iii) constant for all gases. (iv) not related to the solubility of gases



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: MATHEMATICS, Teacher's Name: Mr. Sharad Chandra

Chapter: MATRICES, DETERMINANTS, CONTINUITY & DIFFERENTIABILITY (Homework)

Q. No.	Question	Internal Marks
1.	The order of a matrix obtained by multiplying a 2×3 matrix with a 3×4 matrix is: a) 3×2 b) 2×4 c) 3×4 d) Not possible	1
2.	If the value of a determinant is zero, then the system of equations represented by it is: a) Consistent and unique solution b) Consistent and infinitely many solutions c) Inconsistent d) Either b or c	1
3	Show that matrix multiplication is not commutative with an example.	3
4.	Show that the points $(1,2), (4,6), (7,10)$ are collinear using determinants.	4
5.	Check the continuity and differentiability of $f(x) = x-1 $ at $x=1$.	3
6	Solve the system using matrix method: $x+2y=5$ $3x-y=4$	3
7.	Using determinants, show that the points $(1,1), (2,2), (3,3)$ are collinear.	3
8	if $f(x) = x-2 $, examine the differentiability at $x=2$.	3
9.	IF $x = at^2, y = 2at$, find $\frac{d^2y}{dx^2}$	3
10.	Prove that any square matrix can be expressed as a sum of symmetric and skew -symmetric matrices.	3
11.	show that of all the rectangles with a given perimeter the square has the largest area.	6

12.	find the dimensions of the rectangle of the maximum area that can be inscribed in a given semicircle.	6
13.	if $y = x^{\sin x} + (\cos)^x$, find dy/dx .	4
14.	An open box with a square base is to be made out of cardboard of area c^2 unit. find the maximum volume of the box.	3
15.	15. Find $A^2 - 5A + 6I$ if $A = \begin{bmatrix} 2 & 0 & 1 \\ 2 & 1 & 3 \\ 1 & -1 & 0 \end{bmatrix}$.	3
16.	5. If $A = \begin{bmatrix} \frac{2}{3} & 1 & \frac{5}{3} \\ \frac{1}{3} & \frac{2}{3} & \frac{4}{3} \\ \frac{7}{3} & 2 & \frac{2}{3} \end{bmatrix}$ and $B = \begin{bmatrix} \frac{2}{5} & \frac{3}{5} & 1 \\ \frac{1}{5} & \frac{2}{5} & \frac{4}{5} \\ \frac{7}{5} & \frac{6}{5} & \frac{2}{5} \end{bmatrix}$, then compute $3A - 5B$.	3
17.	Find values of x , if (i) $\begin{vmatrix} 2 & 4 \\ 5 & 1 \end{vmatrix} = \begin{vmatrix} 2x & 4 \\ 6 & x \end{vmatrix}$ (ii) $\begin{vmatrix} 2 & 3 \\ 4 & 5 \end{vmatrix} = \begin{vmatrix} x & 3 \\ 2x & 5 \end{vmatrix}$	3
18.	Is the function defined by $f(x) = \begin{cases} x+5 & \text{if } x \leq 1 \\ x-5 & \text{if } x > 1 \end{cases}$ a continuous function?	3
19.	$y = \sin^{-1}(2x\sqrt{1-x^2})$, $-\frac{1}{\sqrt{2}} < x < \frac{1}{\sqrt{2}}$. find : dy/dx	4
20.	if $y = (\sin x)^x + \sin^{-1} \sqrt{x}$. find : dy/dx	4



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: BIOLOGY, Teacher's Name: Devolina Mazumdar

SUMMER HOLIDAY WORK

Instructions:

- Complete the homework in a separate notebook or as instructed.
- Diagrams should be neat and properly labelled.
- Use NCERT and reference books for accurate content.

Part A: Theory Revision

1. Chapter Summaries

- Make concept map on the following chapters:
 - Human Reproduction
 - Principles of Inheritance and Variation
 - Molecular Basis of Inheritance
 - Biotechnology: Principles and Processes

2. Important Diagrams

- Draw and label the following diagrams:
 - Structure of human sperm and ovum
 - Stages of mitosis and meiosis
 - DNA replication fork
 - Lac operon
 - Tools of recombinant DNA technology

Part B: Investigatory Project Work

Project Topic (Choose any one):

1. Genetic Disorders – A Case Study
2. Role of Biotechnology in Medicine (e.g., Insulin production, Gene therapy)
3. Sustainable Agricultural Practices using Biotechnology
4. Human Genome Project – Scope and Achievements
5. Diabetes in school student
6. Effect of Mobile Phone Radiation on Seed Germination

7. CRISPR-Cas9: Gene Editing and Its Applications
8. Artificial Meat – The Future of Protein Consumption
9. DNA Fingerprinting and Its Role in Forensics
10. Study of the Microbiome: Good Bacteria in the Human Gut
11. Effect of Different Beverages (Tea, Coffee, Energy Drinks) on Heart Rate in Daphnia
12. Plant-based Vaccines: A Green Alternative to Traditional Vaccines
13. Biodegradable Plastics: Bacteria and Fungi as Natural Plastic Degradors
14. Impact of Blue Light on Human Sleep Patterns
15. Role of Algae in Carbon Sequestration and Climate Change Control
16. Additional Modern Topics
17. Bioinformatics: Use of Computer Science in Analyzing DNA Sequences
18. Nano biotechnology in Drug Delivery
19. Lab-grown Organs: The Future of Transplantation
20. Study on the Impact of Processed Food on Health
21. Vertical Farming and its Impact on Sustainable Agriculture

Guidelines:

- Use A4 sheets or project file.
- Include introduction, main content, diagrams, data (if any), conclusion, and bibliography.

Part C: Practical File Work

1. Complete diagrams and theory parts for the following experiments:
 - Study of pollen germination on a slide
 - Preparation of temporary mount to study mitosis in onion root tip
 - Controlled pollination – emasculation and bagging
 - T.S testis, T.S ovary, T.S Blastula
 - Study of Mendelian inheritance using seeds
2. Write the aim, materials required, procedure, observation, and inference for each experiment.



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII Subject: Accountancy Worksheet No: 1

Chapter: Accounting for Partnership firms -Fundamentals

Topic: Fundamentals, Teacher's Name: Shweta Bansal

QNO	Question	
1.	<p>P drew Rs. 6,000 in the beginning of every month for 6 months ending 31st March, 2020. Calculate Interest on Drawings @8% p.a.</p> <p>(a) Rs. 850 (b) Rs. 860 (c) Rs. 840 (d) Rs. 870</p>	
2.	<p>A, B and C started business on 1st July, 2015. You find that C drew Rs. 8,000 every month for 9 months ending 31st March, 2016. Calculate Interest on Drawings @ 10% p.a.</p> <p>(a) Rs.2,700 (b) Rs.2,800 (c) Rs.2,900 (d) Rs.3,000</p>	
3.	<p>Calculate interest on Karishma's drawings if she has withdrawn Rs. 40,000 during the year and interest on drawings is charged @ 10%.</p> <p>(a) Rs. 3,000 (b) Rs. 3,500 (c) Rs. 3,700 (d) Rs. 4,000</p>	
4.	<p>Calculate Interest on Drawings of Mr. A @ 10% p.a. for the year ended 31st March, 2017 if he withdrew Rs. 15,000 at the end of each quarter</p> <p>(a) Rs. 2,500 (b) Rs. 2,250 (c) Rs. 2,300 (d) Rs. 2,350</p>	
5.	<p>On 1st April, 2018, A, B and C started a business with Capital of Rs. 5,00,000, Rs.4,50,000 and Rs. 2,50,000 respectively. According to partnership agreement:</p> <p>(i) Profit earned in any year will be distributed as under: Upto Rs. 3,00,000 equally. Excess over Rs. 3,00,000- 1/5th to A, 2/5th to B and 2/5 to C.</p>	



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII Subject: Accountancy Worksheet No: 1

Chapter: Accounting for Partnership firms -Fundamentals

Topic: Fundamentals, Teacher's Name: Shweta Bansal

	<p>(ii) Allow interest on Capital @ 5% p.a. and charge interest on Drawings @ 8% p.a.</p> <p>(iii) A and C are entitled to get monthly salaries of Rs.4,500 and Rs.5,500 respectively. In addition to salaries, both are entitled to get a commission of 4%(each) on net profits after taking into consideration salaries, interest and all commissions.</p> <p>Drawings of the partners during the year were: A withdrew regularly Rs. 9,000 at the end of every month. B withdrew regularly Rs. 8,000 at the beginning of every month. C withdrew Rs. 50,000 during the year. The profit of the year before charging above adjustments was Rs. 5,47,880. After preparation of P&L Appropriation A/c, profits will be transferred to Capital A/cs will be of:</p> <p>(a) Rs. 3,00,000 (b) Rs. 3,50,000 (c) Rs. 4,00,000 (d) Rs. 4,50,000</p>	
6.	<p>A, B and C started a business in partnership. A contributed Rs. 50,000 for the whole year. B introduces Rs. 40,000 at first and increased it to Rs. 46,000 at the end of 4 months but withdrew Rs. 16,000 at the end of nine months. C invests Rs.80,000 at first but withdrew Rs. 20,000 at the end of five months. Firm earned a profit of Rs. 23,750 during the year. You are required to show division of profits on the basis of the effective capital employed by each partner during the year. The profits after distribution among A, B and C will be of:</p> <p>(a) Rs. 7,000, Rs. 6,000, Rs. 10,000 (b) Rs. 7,500, Rs. 6,230, Rs. 11,250 (c) Rs. 7,500, Rs. 6,000, Rs. 10,250</p>	
7.	<p>R and S were partners in a firm sharing profits in 3: 2. Their fixed Capitals were Rs. 10,00,000 and Rs. 15,00,000. The partnership deed provided the following:</p> <p>(i) Interest on Capital @10% p.a. (ii) Interest on Drawings @12% p.a.</p> <p>During the year ended 31-3-2016, R's drawings were Rs. 10,000 p.m. drawn at the end of every month and S's drawings were Rs. 20,000 p.m. drawn in the beginning of every month. After the preparation of final accounts for the year ended 31-3-2016 it was discovered that interest on R's drawings was not taken into consideration.</p>	



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII Subject: Accountancy Worksheet No: 1

Chapter: Accounting for Partnership firms -Fundamentals

Topic: Fundamentals, Teacher's Name: Shweta Bansal

	<p>The necessary adjustment entry will be:</p> <p>(a) S's Current A/c Dr. 2,640 To R's Current A/c 2,640</p> <p>(b) R's Current A/c Dr. 2,640 To S's Current A/c 2,640</p> <p>(c) S's Current A/c Dr. 2,500 To R's Current A/c 2,500</p> <p>(d) None of the above</p>	
8.	<p>The net profit of a firm for the year ended 31st March, 2017, was Rs. 30,000, which has been duly distributed amongst its three partners A, B and C in their agreed proportion of 3: 1: 1 respectively. It was discovered on 10th April, 2017 that the undermentioned transactions were not passed through the books of accounts of the firm for the year ended 31st March, 2017, which stood duly closed on that date:</p> <p>(a) Interest on Capital at 10% p.a. (b) Interest on Drawings: A Rs. 350, B Rs. 250, C Rs. 150 (c) Salary of Rs. 5,000 to A and Rs.7,500 to B. (d) Commission due to A on special transaction Rs. 3,000</p> <p>The Capital Accounts of the partners on 1st April, 2016 were: A Rs. 25,000, B Rs. 20,000 and C Rs. 15,000</p> <p>You are required to suggest a journal entry to be passed on 10th April, 2017 which will not affect the P&L Appropriation Account of the firm for the year ended 31st March, 2017 and at the same time will rectify the position of the partners.</p> <p>(a) A's Capital A/c Dr. 2,300 C's Capital A/c Dr. 2,800 To B's Capital A/c 5,100</p> <p>(b) B's Capital A/c Dr. 5,100 To A's Capital A/c 2,300 To C's Capital A/c 2,800</p> <p>(c) A's Capital A/c Dr. 2,000 C's Capital A/c Dr. 3,000</p>	



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII Subject: Accountancy Worksheet No: 1

Chapter: Accounting for Partnership firms -Fundamentals

Topic: Fundamentals, Teacher's Name: Shweta Bansal

	To B's Capital A/c	5,000	
	(d) None of the above		
9.	<p>A, B and C were partners. Their Capitals were Rs. 30,000, Rs. 20,000 and Rs. 10,000 respectively on 1st April, 2018. According to the partnership deed they were entitled to an interest on capital at 5% p.a. In addition, B was also entitled to draw a salary of Rs. 500 p.m. C was entitled to a commission of 5% on the profits after charging the Interest on Capital, but before charging the salary payable to B. The net profits for the year ended 31st March, 2019 were Rs. 30,000, distributed in the ratio of their capitals without providing for any of the above adjustments. The profits were to be shared in the ratio of 2: 2: 1. Pass the necessary adjustment entry.</p> <p>(a) B's Capital A/c Dr. 4,860 C's Capital A/c Dr. 780 To A's Capital A/c 5,640</p> <p>(b) B's Capital A/c Dr. 4,560 C's Capital A/c Dr. 580 To A's Capital A/c 5,140</p> <p>(c) A's Capital A/c Dr. 5,640 To B's Capital A/c 4,860 To C's Capital A/c 780</p> <p>(d) None of the above</p>		
10.	<p>Moli, Bhola and Raj were partners in a firm sharing profits and losses in the ratio of 3: 3: 4. The partnership deed provided the following:</p> <p>(i) Interest on Capital @5% p.a. (ii) Interest on Drawings @ 12% p.a. (iii) Interest on Partner's Loan @6% p.a. (iv) Moli was allowed an annual salary of Rs.4,000; Bhola was allowed a commission of 10% of net profit as shown by P&L A/c and Raj was guaranteed a profit of Rs.1,50,000 after making all the adjustments as provided in the partnership agreement.</p> <p>Their fixed Capitals were Moli: Rs.5,00,000; Bhola: Rs.8,00,000 and Raj:</p>		



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII Subject: Accountancy Worksheet No: 1

Chapter: Accounting for Partnership firms -Fundamentals

Topic: Fundamentals, Teacher's Name: Shweta Bansal

	<p>Rs.4,00,000. On 1st April, 2016 Bhola extended a loan of Rs.1,00,000 to the firm. The net profit of the firm for the year ended 31st March, 2017 before interest on Bhola's loan was Rs. 3,06,000.</p> <p>Bhola withdrew Rs.5,000 at the end of each month, Moli withdrew Rs. 10,000 at the end of each quarter and Raj withdrew Rs. 40,000 at the end of each half year.</p> <p>After preparation of P&L Appropriation A/c the final net profits to be transferred to Current A/c of partners Moli, Bhola and Raj will be:</p> <p>(a) Rs. 20,000, Rs. 20,000, Rs. 1,50,000 (b) Rs. 30,000, Rs. 30,000, Rs. 1,50,000 (c) Rs. 19,250, Rs. 19,250, Rs. 1,50,000 (d) Rs. 18,350, Rs. 18,350, Rs. 1,50,000</p>	
11	<p>A and B are partners sharing profits and losses in the ratio of 3: 1. Their capitals at the end of the financial year 2016-17 were Rs. 6,00,000 and Rs. 3,00,000. During the year 2016-17, A's drawings were Rs.80,000 and the drawings of B were Rs. 40,000, which had been duly debited to partner's capital accounts. Profit before charging interest on capital for the year was Rs.80,000. The same had also been credited in their profit-sharing ratio. B had brought additional capital of Rs.70,000 on October 1, 2016. Calculate interest on B's Capital @12% p.a. for the year 2016-17.</p> <p>(a) Rs. 34,200 (b) Rs. 35,000 (c) Rs. 35,500 (d) Rs. 34,300</p>	



ARMY PUBLIC SCHOOL MEERUT CANTT

Holiday Homework

Class: XII

Subject: Business Studies, Teacher's Name: Ms Manisha Singh

Worksheet 1 : Nature & Significance of Management

1.	<p>The newly appointed Production Manger of Saheb ltd. A firm manufacturing toys , Mr Ahrawat noticed that the workers in the factory were not giving their best as the Physical conditions in the factory were not good. He conducted n experiment to see the effect of improvement in the physical conditions in the factory on the performance of the workers, by providing adequate ventilation & water facilities. He observed that the Fatigue level of the workers reduced. The Nature of management being highlighted in the above case is:</p> <ul style="list-style-type: none">a) Management as scienceb) Management as professionc) Management as an Artd) Both (a) & (b)	1
2.	<p>Name the process by which a manager synchronises the activities of different departments.</p>	1
3.	<p>Delhi CM Mr. Arvind Kejriwal launched Odd Even rule for cars in Delhi to cut pollution by restricting the number of cars running on city road. Identify and explain the objective of Management highlighted by our Chief Minister in the above case.</p>	1
4.	<p>Which one of the following statements is incorrect about management?</p> <ul style="list-style-type: none">a) Management unites the efforts of people in the organization toward achieving the predetermined goals.b) Management helps people adapt to environmental changes.c) Management is one-time activity performed at the commencement of a businessd) Management's presence can be felt & experienced but not seen.	1
5.	<p>Read the following statements: Assertion (A) and Reason(R). Choose the correct alternative from those given below:</p> <p>ASSERTION (A): Management is concerned with efficient use of resources.</p> <p>REASONING (R): For management both efficiency and effectiveness need to be balanced.</p>	1

	<p>a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).</p> <p>b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).</p> <p>c) Assertion (A) is true but Reason (R) is False</p> <p>d) Assertion (A) is False but Reason (R) is true.</p>	
6.	<p>Read the following text and answer the following questions on the basis of the same: Sana is the branch manager of ABC Handicrafts Pvt. Ltd. The company's objective is to promote the sales of Indian handloom and handicraft products. It sells fabrics, furnishings, ready-mades and household items are made out of traditional Indian fabrics. Sana decides quantities, variety, colour and texture of all the above items and then allocates resources for their purchase from different suppliers. She appoints a team of designers and crafts people in the company, who developed some prints for bed covers in bright colour on silk. Although the products looked very attractive and impressive, they were relatively expensive on the front of affordability for an average customer. Sana suggested that they should keep the silk bed covers for special festive occasions and offer the cotton bed covers on a regular basis to keep costs under control.</p>	
	<p>Q.1 "She appoints a team of designers and crafts people in the company, who developed some prints for bed covers in bright colour on silk." Which function of management is highlighted in this context?</p> <p>(A) Controlling (B) Staffing (C) Planning (D) Directing</p>	1
	<p>Q.2 With reference to the above case, at which level of management Sana is working?</p> <p>(A) Lower level (B) Top level (C) Middle level (D) Shop floor</p>	
	<p>Q 3. "Sana suggested that they should keep the silk bed covers for special festive occasions and offer the cotton bed covers on a regular basis to keep costs under control."</p>	
	<p>Q.4 In the above case "company's objective is to promote the sales of Indian handloom and handicraft products." The above line focus on which feature of management?</p>	

	(A) Management is an intangible force (B) Management is a goal oriented process (C) Management is pervasive in nature (D) Management is a continuous process	
	Q 5. Which function of management is highlighted in this context? (A) Controlling (B) Staffing (C) Organising (D) Planning	
7.	Management translates the works to be carried out in terms of goals to be achieved and assigns the means to achieve it. This statement relates to (a) Management of work (b) Management of people (c) Management of operations (d) All of the above	1
8.	To meet the objectives of the firm, the management of Angora Ltd. Offers employment to physically challenged persons. Identify the objectives it is trying to achieve. Explain any such two objectives.	3
9.	Different organisations have different goals. 'Zeepo' is an upcoming retail chain for providing consumer goods door-to-door, the objective of this organisation is to increase sales. 'Allie' is an educational organisation working with an objective of providing education to under privileged children of the society. Management of each of these organisations unite the efforts of their employees towards achieving organisational goals. The characteristic of management discussed above is: (A) Management is goal-oriented. (B) Management is a continuous process. (C) Management is a dynamic function. (D) Management is an intangible force.	3
10	Josh Enterprises decides to have a meeting of all the key employees of different departments in the organisation. The main motive is to tell the employees to keep the target of 20% increase in sales as the main objective when they work throughout the year. The meeting is full of ideas regarding the employees and processes involved. Various plans are made to harness the potential of the employees and streamline the processes. However with the passage of a few days the external business environment checks the capability of the organisation to adapt to the situations. The company successfully comes out at the end of the year with flying colours. What are the various characteristics of management you can find highlighted here? Also identify the lines in which these characteristics have been highlighted.	4
11	XYZ Ltd. is a management oriented company. Time and again all the employees learn from their seniors various ways of dealing with diverse	4

	<p>situations. They are provided training whenever required. They are also given incentives both financial as well as non financial. The result is employees see their development in the organisation. The organisation tries to behave as a responsible constituent of society and always creates good quality products. It has a very good image in the market. The training modules are superb and the employees always try to find unique ways of providing solutions in the context of rapidly changing business environment. This has helped the organisation to adjust frequently in a very good manner.</p> <p>Which importance of management is highlighted here? Also identify the lines.</p>	
12	<p>Dheeraj, Neeraj and Suraj are three friends. They work in the same company. They are managers but they belong to three different levels of management. Every day they meet and discuss their work with each other. One day they were having a conversation. Dheeraj said, “These days I am having a lot of problems motivating the people at Shop Floor. I have decided to purchase two new machines. I know I will have to set an example by being the best leader.” Neeraj said, “I am having problem with knowing the exact requirement of people in my department. Different polices have to be informed to the employees so that they become aware of our company’s goals. I also have to coordinate with other departmental heads to know their requirements.” Suraj said, “I have to decide for long term. I know I will be ultimately responsible for every activity. All the policies and strategies require a lot of planning before formulation.”</p> <p>In the above case identify the different levels of management these three friends belong to.</p>	6
13	<p>In a country named Wonderland acting is considered as a profession. Whosoever has to become an actor has to read books written about acting. These books tell the nuances of acting and without reading these books one can’t be considered as an actor. To judge the ability of an actor an examination is conducted and then a degree is assigned to the qualified persons who can then act in films. There is also a body which provides membership to all actors. There are about thirty thousand actors in wonderland who are compulsorily members of this organisation. What are the three features of profession highlighted here? Also identify the lines highlighting these features?</p>	6
14	<p>A very innovative firm has decided to increase its sales. The company is good but they have noticed that their growth has stagnated for the last couple of years. The top management calls for an emergency meeting. For this they have outlined a series of activities to be performed by each person. The people are told the activities they have to perform. Thus the work is divided among individuals. The efforts taken by the firm turn out to be very productive for the organisation and it gains huge profit. The newspapers and management institutes also praise the company for its high standards of management. However as time passes the size of the organisation grows and thus they think of bringing another concept of management with a lot of precision. This concept of management is not voluntary but rather based on a lot of clear cut</p>	

	<p>thinking in advance. The main idea is to reduce confusion among the employees regarding any of the activities they have been assigned. Identify the functions of management highlighted in the above lines which the company follows.</p> <p>Also Identify in the above lines a concept of management discussed which the company tries to bring. Find out one importance and one characteristic of this concept highlighted above.</p>	
--	--	--



ARMY PUBLIC SCHOOL MEERUT CANTT HOLIDAY HOMEWORK

Class: XII

Subject: Business Studies, Teacher's Name: Ms. Manisha Singh

Worksheet 2 : Principles of Management

1.	<p>Which of the following statements most appropriately describes the purpose of time study.</p> <p>(a) Determining a fair day's work. (b) Minimising the wasteful moments in work flow. (c) Determining a fair day's wages. (d) Improving the over all effectiveness of an organisation.</p>	1
2.	<p>Inter- positional transfer of authority is called (please tick the most appropriate answer)</p> <p>(a) Scalar (b) Delegation (c) Decentralisation (d) Unity of command</p>	1
3.	<p>Ankit, a manager, expects his subordinates to work for the happiness & pleasure of being in the organization. Which principle is being overlooked?</p> <p>(a) Subordination of individual interest to general interest (b) Remuneration to employees (c) Espirit De Corps (d) Centralization & decentralization</p>	1
4.	<p>Assertion (A): Principles of Management are mainly behavioural in nature. Reason (R): As human behaviour is very complex and dynamic in nature, management principles do not aim to influence such unpredictable behavior. Alternatives:</p> <p>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 and Reason (R) is not the correct explanation</p>	1

	<p>of Assertion (A).</p> <p>c) Assertion (A) is true but Reason (R) is False</p> <p>d) Assertion (A) is False but Reason (R) is true.</p>	
5.	<p>Assertion (A): Motion study helps to improve the efficiency of the workers.</p> <p>Reason (R): It eliminates wasteful and inefficient motions by workers and machines to identify the best method of work.</p> <p>Alternatives:</p> <p>a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).</p> <p>b) Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A).</p> <p>c) Assertion (A) is true but Reason (R) is False</p> <p>d) Assertion (A) is False but Reason (R) is true</p>	1
6.	<p>Assertion (A): Management Principles cannot be used as tailor-made tools and have to be adjusted as per the demand of the situation.</p> <p>Reason (R): Real Business situations are very complex and dynamic.</p> <p>Alternatives:</p> <p>Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).</p> <p>b) Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A).</p> <p>c) Assertion (A) is true but Reason (R) is False</p> <p>d) Assertion (A) is False but Reason (R) is true.</p>	1
7.	<p>A company manufacturing mobile phones increasing its production facilities in response to surge in demand. It asked its entire workforce to work overtime. Due to increased pressure efficiency declined. Sometimes there was confusion about whose orders to follow. There was decline in teamwork. Identify the two principles of management (of Henri Fayol), which were being violated. Explain them and how they can be implemented. Suggest the required changes.</p>	3
8.	<p>Telco Ltd is manufacturing files and folders from the old clothes to discourage use of plastic files and folders. For this, they employ people from nearby villages where very less job opportunities are available. An employee, Harish, designed a plan for the cost reduction but it was not welcomed by the production manager. Another employee gave some suggestion for</p>	3

	<p>improvement in design, but it was also not appreciated by the production manager.</p> <p>State the principle of management described in the above para.</p> <p style="text-align: center;">&</p> <p>Voltech India Lid is manufacturing LED bulbs to save electricity and running under heavy losses. To revive from the losses, the management thought of shifting the unit to a backward area where labour is available at a low cost. The management also asked the workers to work overtime without any additional payment and promised to increase the wages of the workers after achieving its mission. Within a short period the company started earning profits because both the management and the workers honoured their commitments.</p> <p>State the principle of management described in the above para.</p> <p>Identify any two values that the company wants to communicate to the society.</p>	
9.	<p>Explain why is it said that principles of management are 'mainly behavioural' and 'contingent' in nature. Also explain how principles of management 'provides managers with useful insights into reality' and 'helps in thoughtful decision-making'.</p>	4
10	<p>Sanchit, after completing his entrepreneurship course from Sweden returned to India and started a coffee shop 'Aroma Coffee Can' in a famous mall in New Delhi. The speciality of the coffee shop was the special aroma of coffee and a wide variety of flavours to choose from. Somehow, the business was neither profitable nor popular. Sanchit was keen to find out the reason. He appointed Sandhya, an MBA from a reputed college, as a Manager to find out the causes for the same.</p> <p>Sandhya took feedback from the clients and found out that though they loved the special unique aroma of coffee but were not happy with the long waiting time being taken to process the order. She analysed and found out that there were many unnecessary obstructions in between which could be eliminated. She fixed a standard time for processing the order.</p> <p>She also realised that there were some flavours whose demand was not enough. So, she also decided to stop the sale of such flavours. As a result, with in a short period Sandhya was able to attract the customers.</p> <p>Identify and explain any two techniques of scientific management used by Sandhya to solve the problem.</p>	4
11	<p>After completing a course in fashion designing, Nancy opens a garment store. She Employs seven persons in her store. For carrying out the jobs in an effective & efficient manner she divides the work into small tasks & each employee is made to perform a given job repeatedly. This leads to specialization. The sales persons are allowed to offer a discount of 5% to</p>	6

	<p>customers & if any customer asks for more discount, then such a request is handled by Nancy herself.</p> <p>To handle extra work in the initial months, Nancy asked three workers to put in extra hours & promised them that once returns from the business pick up, they would be rewarded extra bonus. After six months when the business started doing well, she paid cash bonus to each of these employees. However, when Ritu a sales girl, asked for leave for Diwali, Nancy denied it but when Tina, another sales girl, asked for leave for Christmas, it was granted to her.</p> <p>In context of the above case:</p> <ol style="list-style-type: none"> a) Identify & explain the various principles of management that are being reflected in the above case, by quoting lines from the paragraph. b) Identify & explain the principle of management which is being violated by quoting lines from the paragraph. c) State any one effect of the violation of the principle of management as identified in part(b) of the question. 	
12	<p>Raghuveer joined as a CEO of Bharat Ltd. A firm manufacturing Computer hardware. On the first day he addressed the employees. He said that he believed that a good company should have an employee suggestion system & he wished to minimize employee turnover to maintain organizational efficiency. He informed all employees that he would ensure that all agreements were clear, fair & there was judicious application of penalties. However, he said that he believed that lazy personnel should be dealt with sternly to send the message that everyone are equal in the eyes of management. Also that he would want to promote a team spirit of unity & harmony among employees, which would give rise to a spirit of mutual trust & belongingness among team members & eventually minimize need for using penalties. He told all present that the interest of the organization should take priority over the interests of any one individual employee.</p> <p>Identify & briefly explain any four principles of management given by Fayol, which Sanchit highlighted in his address to the employees.</p>	6

ARMY PUBLIC SCHOOL MEERUT CANTT

Holiday Homework

Class: XII

Subject: Business Studies

Topic : Self assessment : Business Environment



Time allowed : 45 min.

Maximum Marks : 20

- Q.1 _____ is considered an element of social environment. (Choose the correct alternative) (1 mark)
- (a) Expansion of transportation and communication facilities.
 - (b) Expectations from the workforce
 - (c) The extent and nature of government interventions in business.
 - (d) Rate of saving and investment.
- Q.2 Assertion (A): Business environment is dynamic.
Reason (R): It becomes easy to comprehend at once what exactly constitutes a given environment. (1 mark)
- (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 and Reason (R) is false.
 - (d) Assertion (A) is false and Reason (R) is true.
- Q.3 Rising traffic congestion levels made Subhash think out-of-the-box. He came up with 'Speedo', the first Bike Taxi App in India for a fast and an affordable means of daily travel. His aim was to provide economical, cost-effective, fuel-efficient and time-saving transport to the people with an affordable means of transportation. The consumers could navigate narrow lanes and bypass traffic congestion problems. The business started growing at 20% month over month. Today, it is successfully operating in twelve cities with more than 60,000 consumers. Subhash and his team continuously monitor the business environment to improve its present performance so that the business continues to succeed in the long-run also. Identify the point of importance of business environment discussed in the above para. (1 mark)
- (a) It enables the firm to identify opportunities and getting the first mover advantage.
 - (b) It helps in improving performance.
 - (c) It helps the firm to identify threats and early warning signals.
 - (d) It helps in tapping useful resources.
- Q.4 Goodwill Enterprises is a large-scale automobile manufacturer, who fulfills the needs of both industrial users and consumers. The company is providing easy finance facilities at a low rate of interest, which has considerably increased the demand for the product. The company has installed a new branch management software to efficiently manage and coordinate activities across their multiple branches and locations. Identify the components of the business environment from the above case study. (1 mark)
- (a) Political and economic environment
 - (b) Economic and social environment
 - (c) Technological and legal environment
 - (d) Economic and technological environment
- Q.5 State any three features of business environment. (3 marks)
- Q.6 State any three features of Demonetization. (3 marks)
- Q.7 Environment is a source of various resources for running a business. To engage in any type of activity, a business enterprise assembles various resources called inputs like finance, machines, raw materials, power and water, labour, etc., from its environment including financiers, government and suppliers. They decide to provide these resources with their own expectations to get something in return from the enterprise. The business enterprise supplies the environment with its outputs such as goods and services for customers, payment of taxes to government, return on financial investment to investors and so on. Because the enterprise depends on the environment as a source of inputs or resources and as an outlet for outputs, it only makes sense that the enterprise designs policies that allow it to get the resources that it needs so that it can convert those resources into outputs that the environment desires. This can be done better by understanding what the environment has to offer.
Since environment is a source of both opportunities and threats for a business enterprise, its understanding and analysis can be the basis for deciding the future course of action (planning) or training guidelines for decision making (policy). For instance, entry of new players into the market, which means more competition may make an enterprise think afresh about how to deal with the situation.
Explain briefly any three points of importance of business environment other than those explained in the above paragraphs. (4 marks)
- Q.8 India's craft heritage continues because of its customs and traditions. Crafts are used not only in the country by craftsmen in Rajasthan, Gujarat and Assam but are also exported to the USA, Germany, the UK and France. The volume of exports and imports gives India an advantage in balance of payments and the much needed foreign exchange reserves. The Prime Minister desires that the handicraft industry should be expanded by linking it with technology. Focus should be on changing the manufacturing process, ensuring durability and adapting innovations.
Quoting the lines from the above para, explain four dimensions of the business environment. (6 marks)

ARMY PUBLIC SCHOOL MEERUT CANTT



Holiday Homework

Class: XII

Subject: Business Studies

Self Assessment : Planning

Time allowed : 45 min.

Maximum Marks : 20

- Q.1 'Vishesh Constructions', a construction company, decided to strictly implement 'No Helmet, No Entry' and put the following sign at their construction sites:



Identify the type of plan indicated by the above sign:

- (a) Policy (b) Rule (1 mark)
(c) Method (d) Programme
- Q.2 Assertion (A): Planning does not guarantee success.
Reason (R): Managers have a tendency to rely on previously tried and tested successful plans. It is not always true that just because a plan has worked before it will work again.
(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 and Reason (R) is false.
(d) Assertion (A) is false and Reason (R) is true. (1 mark)
- Q.3 A sanitizer manufacturing company wants to become a market leader. For this purpose the manager follows an activity with certain logical steps. The first step suggested by him is to increase profits by at least 30% in the next quarter. What will be the last step of the activity being followed by the manager. (1 mark)
(a) Follow-up action (b) Identifying alternative course of action
(c) Setting objectives (d) Evaluating alternative courses of action
- Q.4 YTS, a Shipping company has been successfully carrying out its shipping business for the past five years. Last year, it rolled out a new shipping initiative during the holiday season, with the promise to deliver all packages by a particular time before the holidays. The company had an objective of increasing the profit at a consistent rate. The unexpected high demand hassled the workers and the delivery team, causing a delay in the delivery of a large number of packages. The company did not recognise the logistical difficulties in training new staff, in order to meet its delivery schedules as promised. The complacency of the company to think that a consistent rate of profit could be maintained, led to its failure. Identify the limitation of planning discussed above (1 mark)
(a) planning is a time consuming process (b) planning does not guarantee success
(c) Planning involves huge costs (d) planning reduces creativity
- Q.5 "Failing to plan is planning to fail." Comment. (3 marks)
- Q.6 Matta Auto Ltd. is manufacturing different types of commercial vehicles. Their sales were rupees two hundred crores in the previous year. The company decided to increase sales by 20% during the current year. It conducted internal as well as external audits for the same. Through internal audit, they analysed the strengths and weaknesses of the business across all departments. External audit focused on the opportunities and the threats in the constantly changing business environment. Thus, a comprehensive plan was prepared taking into consideration the business environment and the necessary resources were allocated to achieving the target. The company directed its offices throughout the country to follow the plan. The company's commitment to developing effective plans to achieve a consistent increase in sales has ensured its continual growth over the past one decade. (3 marks)
- Q.7 Identify and explain the two types of plans discussed above.
Mega Ltd. holds an Annual Management Programme every year in the month of March in which the top managerial personnel formulate plans for the next year by analysing and predicting the future to meet future events effectively. As they are responsible for providing direction to the organisation, facts are thoroughly checked through scientific calculations. Detailed plans are prepared after discussion with professional experts. Preliminary investigations are also undertaken to find out the viability of the plan. Since



ARMY PUBLIC SCHOOL MEERUT CANTT

Holiday Homework

Class: XII

Subject: Business Studies, Teacher's Name: Ms. Manisha Singh
Project Work

Business studies

Project 2025-26

XII

PROJECT WORK : **PROJECT (ANY ONE)**

- 1.** Stock Exchange
- 2.** Marketing Management
- 3.** Business Environment
- 4.** Principles of Management

Presentation and Submission of Project Report At the end of the stipulated term, each student will prepare and submit his/her project report.

General Instructions for the preparation & Presentation of Project

1. The total length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project should be presented in a neat & Furnished folder.
4. The project report should be developed in the following sequence-
 - ❖ **Cover page** (Front cover of file): should include the School Name, Subject , title of the Project, student information and year.
 - Page 2: List of contents. (including page no.)
 - Page 3: Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped).
 - Page 4: Certificate Signed by Subject teacher
 - Page 5: Topic with suitable heading. Or Sub Topic
 - ❖ Introduction of the topic
 - ❖ Project activities
 - ❖ Observations and findings of the visit.
 - ❖ Use of photographs / animated pictures/ graphs
 - ❖ Conclusion
 - ❖ Appendix
 - ❖ Questionnaire

PROJECT 1

STOCK EXCHANGE

1. Brief history about Stock exchange
2. Explain about the business finance & capital market
3. Prepare list of at least 25 companies listed in Stock exchange
4. Watch business channels, read business journals / newspaper, collects the information about any 5 companies' shareholdings in stock market.
5. Prepare an imaginary portfolio of such companies.
6. It is require to report the prices of the stocks on daily basis & create graph .
7. Conclude by identifying the causes of fluctuation in prices for eg. Change in seasons political environment, contracts & treaties at the international scene.
8. Graphical presentation of the share prices of such 5 companies on different dates.
9. Identify the top best five companies of India on the basis of their market value of shares.
10. Questionnaire

PROJECT 2

Marketing

It is advice to the students to do a simple market research with the objective of finding out a Product / service whose marketing may be profitable like : any consumer product (toothpaste, shampoo) or any service.

OR

List of Consumer products as per CBSE guidelines are as follows:

1. Adhesives 2. Air conditioners 3. Baby diapers 4. Bathing Soap 5. Bathroom cleaner 6. Bike 7. Blanket 8. Body Spray 9. Bread 10. Breakfast cereal 11. Butter 12. Camera 13. Car 14. Cheese spreads 15. Chocolate 16. Coffee 17. Cosmetology product 18. Crayons 19. Crockery 20. Cutlery 21. Cycle 22. DTH 23. Eraser 24. e-wash 25. Fairness cream 26. Fans 27. Fruit candy 28. Furniture 29. Hair Dye 30. Hair Oil 31. Infant dress 32. Inverter 33. Jams 34. Jeans 35. Jewellery 36. Kurti/ Kurta 37. Ladies bag 38. Ladies footwear 39. Learning Toys 40. Lipstick 41. Microwave oven 42. Mixers 43. Mobile 44. Moisturizer 45. Music player 46. Any Music Instrument 47. Nail polish 48. Newspaper 49. Noodles 50. Pen 51. Pen drive 52. Pencil 53. Pickles 54. Razor 55. Ready Soups 56. Refrigerator 57. RO system 58. Roasted snacks 59. Salt 60. Sauces/ Ketchup 61. Shampoo 62. Shaving cream 63. Shoe polish 64. Shoes 65. Squashes 66. Suitcase/ airbag 67. Sunglasses 68. Tea 69. Tiffin Wallah 70. Toothpaste 71.

Wallet 72. Washing detergent 73. Washing machine 74. Washing powder 75.

Water bottle 76. Water storage tank 77. Wipes

Now the students are required to make a project on the identified product/service keeping in mind the following points :

1. Brief explanation of Marketing Management
2. Identify your product or service to Market
3. Why have you selected this product/service?
4. Permission / license required to make the product / service.
5. What is the name of your product?
6. Enlist the feature of your product or service.
7. Does your product have any range give details?
8. Draw the label & logo of your product or service.
9. Draft a Tag line.
10. How will your product be packaged?
11. Find out '5' similar competitive brands that exists in the market.
12. Selling price of your product to : i) Consumer ii) Retailer (iii) Wholesaler & What is the profit margin in percentage to the i) Manufacturer. ii) Wholesaler. Iii) Retailer.
13. What is the selling price of your competitor's product?
14. Find out the competitors Unique Selling Proposition (USP)
15. Explain your product unique selling proposition (USP)
16. Channel of distribution (Which channel of distribution are you going to use? Give reasons for selection?)
17. Decisions related to warehousing, state reasons.
18. List any five ways of promoting your product.
19. Conclusion
20. Questionnaire

PROJECT 3

Elements of Business Environment

Select any one element of the following Situations/ Change

1. Changes witnessed over the last few years on mode of packaging and its economic impact.
Identify the following changes:
 - a) The changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates, etc. Reasons for above changes.
 - b) Milk being supplied in glass bottles, later in plastic bags and now in tetra-pack and through vending machines.
 - c) Plastic furniture [doors and stools] gaining preference over wooden furniture.
 - d) The origin of cardboard and the various stages of changes and growth.

- e) Brown paper bags packing to recycled paper bags to plastic bags and cloth bags.
 - f) Re use of packaging [bottles, jars and tins] to attract customers for their products.
 - g) The concept of pyramid packaging for milk.
 - h) Cost being borne by the consumer/manufacturer.
 - i) Packaging used as means of advertisements.
2. The reasons behind changes in the following: Coca – Cola and Fanta in the seventies to Thums up and Campa Cola in the eighties to Pepsi and Coke in nineties.
- When India sold Coca Cola and Fanta which were being manufactured in India by the foreign companies.
 - The students may enquire about
 - a) Reasons of stopping the manufacturing of the above mentioned drinks in India THEN.
 - b) The introduction of Thums up and Campa cola range.
 - c) Re-entry of Coke and introduction of Pepsi in the Indian market.
 - d) Factors responsible for the change.
 - e) Other linkages with the above.
 - f) Leading brands and the company having the highest market share.
 - g) Different local brands venturing in the Indian market.
 - h) The rating of the above brands in the market.
 - i) The survival and reasons of failure in competition with the international brands.
3. Changing role of the women in the past 25 years relating to joint families, nuclear families, women as a bread earner of the family, changes in the requirement trend of mixers, washing machines, micro wave and standard of living.
4. The changes in the pattern of import and export of different Products.
5. The trend in the changing interest rates and their effect on savings.
6. A study on child labour laws, its implementation and consequences.
7. The state of ‘anti plastic campaign,’ the law, its effects and implementation.
8. The laws of mining /setting up of industries, rules and regulations, licences required for running that business.
9. Social factors affecting acceptance and rejection of an identified product. (Dish washer, Atta maker, etc)
10. What has the effect of change in environment on the types of goods and services? Can take examples like:
- a) Washing machines, micro waves, mixers and grinder.
 - b) Need for crèche, day care centre for young and old.
 - c) Ready to eat food, eating food outside, and tiffin centres.

11. Change in the man-machine ratio with technological advances resulting in change of cost structure.
12. Effect of changes in technological environment on the behaviour of employee.
13. Own observation-based Project.

PROJECT 4
PRINCIPLES OF MANAGEMENT

The students are required to visit any one of the following:

1. A departmental store.
2. An Industrial unit.
3. A fast food outlet.
4. Any other organisation approved by the teacher.

Students are required to observe the application of the general Principles of management advocated by Fayol.

Fayol's principles

- | | | |
|---|----------------------|---|
| 1. Division of work. | 5. Esprit de corps | 9. Discipline . |
| 13. Stability of tenure. | | |
| 2. Unity of command. | 6. Fair remuneration | 10. Subordination of individual interest to general interest. |
| 3. Unity of direction. | 7. Order | 11. Initiative. |
| 4. Scalar chain to all decentralisation | 8. Equity. | 12. Centralisation and decentralisation |

OR

They may enquire into the application of scientific management techniques by F.W. Taylor in the unit visited. Scientific techniques of management. 1. Functional foremanship. 2. Standardisation and simplification of work. 3. Method study. 4. Motion Study. 5. Time Study. 6. Fatigue Study 7. Differential piece rate plan.

Allocation of Marks = 20 Marks

The marks will be allocated under the following heads:

1.	Initiative, cooperativeness and participation	2 Marks
2.	Creativity in presentation	2 Marks
3.	Content, observation and research work	4 Marks
4.	Analysis of situations	4 Marks
5.	Viva	8 marks
	Total	20 marks



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: Economics , Teacher's Name: Ms. Laxmi Kaushik

Chapter: National Income (Homework)

Topic: Board Questions for national income.

Q.No	Questions	Marks in boards
1.	Session 12-13 Give two examples of Intermediate goods.	1
2.	Distinguish between Real GDP and Nominal GDP. Which of these is a better index of welfare of the people and why? OR Distinguish between stocks and flows. Give two examples of each.	4
3.	Calculate sales from the following data- (i) Subsidies-200 (ii) Opening stock -100 (iii) Closing stock-600 (iv) Intermediate consumption – 3000 (v) Depreciation - 700 (vi) Profit - 750 (vii) NVAfc - 2000	4
4.	Calculate GNPmp – (i) Compensation of Employees -2000 (ii) Interest – 500 (iii) Rent- 700 (iv) Profit – 800 (v) Employer's to SSC- 200 (vi) Dividend- 300 (vii) Depreciation- 100 (viii) Net indirect tax- 250 (ix) Net exports – 70 (x) Net factor to abroad – 150 (xi) Mixed income of employees -1500	6
5.	Session 13-14 What are externalities? Give an example of a positive externality and its impact on welfare of the people.	3
6.	Calculate NNPfc (i) SSC by employees – 90	4

	<ul style="list-style-type: none"> (ii) Wages and salaries -800 (iii) Net current transfers to Abroad – (-)30 (iv) Rent and Royalty – 300 (v) Net factor income to abroad – 50 (vi) SSC by employers -100 (vii) Profit -500 (viii) Interest -400 (ix) Depreciation – 200 (x) Net indirect taxes -250 	
7.	<p>How should the following be treated in estimating national income of a country? You must give reason for your answer.</p> <ul style="list-style-type: none"> (i) Taking care of aged parents (ii) Payment of Corporate tax (iii) Expenditure on providing police services by the government. 	6
8.	<p>Session 13-14(C) Give the meaning of Depreciation.</p>	1
9.	Define domestic product.	1
10.	Distinguish between real and nominal GDP	3
11.	<p>From the following data calculate NVA_{fc}</p> <ul style="list-style-type: none"> (i) Sales -400 (ii) Change in stock- (-20) (iii) Intermediate consumption – 200 (iv) Net Indirect taxes – 40 (v) Exports – 50 (vi) Depreciation -30 <p style="text-align: center;">OR</p> <p>Is GDP a true index of economic welfare of the people? Give 2 reasons in support of your answer.</p>	4
12.	<p>Calculate National income(NNP_{fc})</p> <ul style="list-style-type: none"> (i) Net CTROW - 30 (ii) Private Final Consumption Expenditure - 400 (iii) Net Domestic Capital Formation - 100 (iv) Change in stock - 50 (v) Depreciation - 20 (vi) Government Final Consumption Expenditure - 200 (vii) Net exports - 40 (viii) Net Indirect Taxes - 80 (ix) Net Factor Income to Abroad - 10 	6
13.	<p>Session 14-15 If the Real GDP is 400 and Nominal GDP is 450, Calculate Price Index.</p>	3

14.	<p>Giving reason explain how the following should be treated in estimation of NI.</p> <ul style="list-style-type: none"> (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. 	6
15.	<p>Calculate NI</p> <ul style="list-style-type: none"> (i) Rent – 200 (ii) Net factor income to Abroad -10 (iii) National Debt Interest – 15 (iv) Wages and salaries – 700 (v) Current Transfer to Government – 10 (vi) Undistributed Profit – 20 (vii) Corporation tax – 30 (viii) Interest -150 (ix) SSC by employers – 100 (x) Net domestic product accruing to Govt. – 250 (xi) Net current transfer to Abroad – 5 (xii) Dividends - 50 	6
16.	<p>Session 15-16 Define flows</p>	1
17.	<p>National income is the sum of factor income accruing to –</p> <ul style="list-style-type: none"> (a) Nationals (b) Economic territory (c) Residents (d) Bothe residents and Non-residents 	1
18.	<p>If nominal income is 500, Price index is 125. Calculate real income.</p>	3
19.	<p>Sale of Petrol and Diesel cars is rising particularly in big cities. Analyse its impact on GDP and welfare.</p>	4
20.	<p>Calculate NNP_{mp}</p> <ul style="list-style-type: none"> (i) Net current transfer to Abroad – 10 (ii) Private final cons.exp - 500 (iii) Current transfer Government - 30 (iv) Net factor income to abroad - 20 (v) Net exports - (-20) (vi) Net indirect tax - 120 (vii) National debt interest - 70 (viii) Net domestic capital formation – 80 (ix) Income acc. To govt. – 60 (x) Government final consumption expenditure -100 	6
21.	<p>Real income is 400 , Price index is 105. Calculate nominal income.</p>	3

22.	<p>Calculate NNPfc: -</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">(i) Corporation tax –</td> <td style="text-align: right;">100</td> </tr> <tr> <td>(ii) Prvt final cons. Exp. -</td> <td style="text-align: right;">900</td> </tr> <tr> <td>(iii) Perosnal income tax –</td> <td style="text-align: right;">120</td> </tr> <tr> <td>(iv) Govt,final cons.exp -</td> <td style="text-align: right;">200</td> </tr> <tr> <td>(v) Undistributed profit -</td> <td style="text-align: right;">50</td> </tr> <tr> <td>(vi) Change in stocks -</td> <td style="text-align: right;">(-20)</td> </tr> <tr> <td>(vii) Net domestic fixed capital formation –</td> <td style="text-align: right;">120</td> </tr> <tr> <td>(viii) Net imports</td> <td style="text-align: right;">- 10</td> </tr> <tr> <td>(ix) NIT</td> <td style="text-align: right;">- 150</td> </tr> <tr> <td>(x) NFIA</td> <td style="text-align: right;">- (-10)</td> </tr> <tr> <td>(xi) Private income</td> <td style="text-align: right;">1000</td> </tr> </table>	(i) Corporation tax –	100	(ii) Prvt final cons. Exp. -	900	(iii) Perosnal income tax –	120	(iv) Govt,final cons.exp -	200	(v) Undistributed profit -	50	(vi) Change in stocks -	(-20)	(vii) Net domestic fixed capital formation –	120	(viii) Net imports	- 10	(ix) NIT	- 150	(x) NFIA	- (-10)	(xi) Private income	1000	6
(i) Corporation tax –	100																							
(ii) Prvt final cons. Exp. -	900																							
(iii) Perosnal income tax –	120																							
(iv) Govt,final cons.exp -	200																							
(v) Undistributed profit -	50																							
(vi) Change in stocks -	(-20)																							
(vii) Net domestic fixed capital formation –	120																							
(viii) Net imports	- 10																							
(ix) NIT	- 150																							
(x) NFIA	- (-10)																							
(xi) Private income	1000																							
23.	<p>Session 16-17</p> <p>Explain with the help of an example, the basis of classifying goods into final and intermediate goods.</p>	3																						
24.	<p>Explain the precautions that should be taken while estimating national income by expenditure method.</p> <p style="text-align: center;">OR</p> <p>Will the following be included in the Domestic Product of India? Give reasons for your answer.</p> <p>(a) Profits earned by foreign companies in India.</p> <p>(b) Salaries of Indians working in the Russian Embassy in India.</p> <p>(c) Profits earned by a branch of SBI in Japan.</p>	6																						
25.	<p>Calculate NNPfc :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">(i) Compensation of employees</td> <td style="text-align: right;">- 2000</td> </tr> <tr> <td>(ii) Rent</td> <td style="text-align: right;">- 400</td> </tr> <tr> <td>(iii) Profit</td> <td style="text-align: right;">- 900</td> </tr> <tr> <td>(iv) Dividend</td> <td style="text-align: right;">- 100</td> </tr> <tr> <td>(v) Interest</td> <td style="text-align: right;">- 500</td> </tr> <tr> <td>(vi) MISE</td> <td style="text-align: right;">- 7000</td> </tr> <tr> <td>(vii) Net factor income to Ab.</td> <td style="text-align: right;">– 50</td> </tr> <tr> <td>(viii) Net exports</td> <td style="text-align: right;">- 60</td> </tr> <tr> <td>(ix) NIT</td> <td style="text-align: right;">- 300</td> </tr> <tr> <td>(x) Depreciation</td> <td style="text-align: right;">- 150</td> </tr> <tr> <td>(xi) Net current transfers to Ab.</td> <td style="text-align: right;">– 30</td> </tr> </table>	(i) Compensation of employees	- 2000	(ii) Rent	- 400	(iii) Profit	- 900	(iv) Dividend	- 100	(v) Interest	- 500	(vi) MISE	- 7000	(vii) Net factor income to Ab.	– 50	(viii) Net exports	- 60	(ix) NIT	- 300	(x) Depreciation	- 150	(xi) Net current transfers to Ab.	– 30	6
(i) Compensation of employees	- 2000																							
(ii) Rent	- 400																							
(iii) Profit	- 900																							
(iv) Dividend	- 100																							
(v) Interest	- 500																							
(vi) MISE	- 7000																							
(vii) Net factor income to Ab.	– 50																							
(viii) Net exports	- 60																							
(ix) NIT	- 300																							
(x) Depreciation	- 150																							
(xi) Net current transfers to Ab.	– 30																							
26.	<p>Explain the circular flow of income.</p>	3																						
27.	<p>Precautions by value added method.</p> <p style="text-align: center;">OR</p> <p>National income. Give reasons: -</p>	6																						

	<p>(a) Financial assistance to flood victims. (b) Profits earned by the branches of a foreign bank in India. (c) Salaries of Indians working in American embassy in India.</p>	
28.	<p>Net National Product at market price: - (a) MISE – 8000 (b) Depreciation - 200 (c) Profit – 1000 (d) Rent - 600 (e) Interest – 700 (f) CE - 3000 (g) NIT - 500 (h) Net Factor Income to Ab. -60 (i) Net exports - (-50) (j) Net current transfer to Ab -20</p>	6
29.	Distinguish between stock and flows. Give eg., of each.	3
30.	<p>Calculate GNPmp:- (i) CE – 2500 (ii) Profit – 700 (iii) MISE – 7500 (iv) Govt. final cons.exp. -3000 (v) Rent – 400 (vi) Interest – 350 (vii) NFIA – 50 (viii) Net current transfer to Ab. – 100 (ix) NIT – 150 (x) Depreciation – 70 (xi) Net exports - 40</p>	6
31.	<p>Session 17-18 With a rise in real income national income, welfare of the people:- (a) Rises (b) Falls (c) Remain unchanged (d) None of these.</p>	1
32.	<p>Which among the following are capital goods and which are consumption goods and why? (a) A car used as a taxi (b) Refrigerator in a hotel. (c) A.C. in a house.</p>	3

	OR	
	Define intermediate consumption and explain it with an example. How is it different from final consumption?	
33.	. Calculate National Income / GDP : - (i) Govt. final cons. Exp. - 4000 (ii) Pvt. Final. Cons. Exp. - 3500 (iii) Gross Domestic capital formation – 1100 (iv) Net exports – 500 (v) NFIA – 100 (vi) Subsidies – 40 (vii) Change in stock – 80 (viii) Depreciation – 120 (ix) IT - 300	6
34.	Which of the following affects NI : - (a) GST (b) Corporation tax (c) Subsidies (d) None of these	1
35.	Given nominal income, how can we find real income? Explain. <p style="text-align: center;">OR</p> Which among the following are final goods and which are intermediate goods? Give reasons. (a) Milk purchased by a tea stall. (b) Bus purchased by a school. (c) Juice purchased by a student from the school canteen.	3
36.	Calculate NNPmp / GDPfc: - (i) Rent + Interest -6000 (ii) Wages and salaries – 1800 (iii) Undistributed profit – 400 (iv) NIT - 100 (v) Subsidies – 20 (vi) Corporation tax – 120 (vii) Net factor income to Ab. – 70 (viii) Dividends – 80 (ix) CFC – 50 (x) SSC by employer - 200	6

	(xi) Mixed income - 100	
37.	Session 18-19 How is Real GDP different from Nominal GDP. Explain using a numerical example.	4
38.	(a) Define NFIA. How is it different from net exports? (b) Calculate the value of Rent: - (i) GDP mp. – 18000 (ii) MISE - 7000 (iii) Subsidies – 250 (iv) Interest – 800 (v) Rent - ? (vi) Profit – 975 (vii) CE – 6000 (viii) CFC – 1000 (ix)IT – 2000	2+4
39.	Session 19-20 State, Whether the given statement is true or false: “unexpected obsolescence is a component of Depreciation”.	1
40.	Rs.2000 note lying in wallet of Rohini, a student is an example of (stock/flow) iable.	1
41.	Define intermediate consumption.	1
42.	The sum of factor payments is equal to -----. (a) Domestic income (b) National income (c) Per capita real income (d) Per capita nominal income	1
43.	‘Domestic services (HH services) performed by a woman are not considered as an economic activity’. Defend or refute the given statement with valid reason.	3
44.	Calculate NVA fc from the following data: (i) Value of output – 800 (ii) Intermediate consumption – 200 (iii) Indirect tax – 30 (iv) Depreciation – 20	3

	<p>(v) Subsidies – 50 (vi) Purchase of machinery – 50 OR State the three components of income from Property and Entrepreneurship.</p>																
45.	<p>“ Management of a water polluting oil refinery says that the (oil refinery) ensures welfare through its contribution to GDP”.</p> <p>Defend or refute the argument of management with respect to GDP as a welfare measures of the economy.</p>	3															
46.	<p>Session 21-22</p> <p>State any two precautions that are taken while estimating National Income by Expenditure Method.</p> <p style="text-align: center;">OR</p> <p>Distinguish between Gross Domestic Product at Market Price and Net Domestic Product at Market Price.</p>	2															
47.	<p>Giving valid reasons, explain how the following would be treated while estimating National income:</p> <p>(a) Payment of indirect taxes by a firm. (b) Purchase of goods by foreign tourists.</p> <p style="text-align: center;">OR</p> <p>Using the following information, calculate and analyse the value of Gross Domestic Product(GDP) deflator:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Year</th> <th style="width: 25%;">2014-15</th> <th style="width: 25%;">2016-17</th> </tr> </thead> <tbody> <tr> <td>Nominal GDP</td> <td>6.5</td> <td>9</td> </tr> <tr> <td>Real GDP</td> <td>6.5</td> <td>7.2</td> </tr> </tbody> </table>	Year	2014-15	2016-17	Nominal GDP	6.5	9	Real GDP	6.5	7.2	3						
Year	2014-15	2016-17															
Nominal GDP	6.5	9															
Real GDP	6.5	7.2															
48.	<p>(a) (i) From the following data, calculate Net Value Added at factor cost (NVA_{fc}):</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">S.No.</th> <th style="width: 40%;">Particulars</th> <th style="width: 30%;">Amount in crores</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Price per unit of output</td> <td>20</td> </tr> <tr> <td>2.</td> <td>Output sold (units)</td> <td>1250units</td> </tr> <tr> <td>3.</td> <td>Excise duty</td> <td>5000</td> </tr> <tr> <td>4.</td> <td>Consumption of fixed capital</td> <td>1000</td> </tr> </tbody> </table>	S.No.	Particulars	Amount in crores	1.	Price per unit of output	20	2.	Output sold (units)	1250units	3.	Excise duty	5000	4.	Consumption of fixed capital	1000	3
S.No.	Particulars	Amount in crores															
1.	Price per unit of output	20															
2.	Output sold (units)	1250units															
3.	Excise duty	5000															
4.	Consumption of fixed capital	1000															

5.	Change in stock	(-)500
6.	Single use producer goods	6000

2

(ii) Why there is a need to make distinction between final and intermediate goods?

OR

(b)(i) Discuss briefly the concept of 'Externalities', with suitable examples.

(ii) Export are not a part of 'Net factor income from abroad'.

Elaborate the reason behind the given statement.

49. When does Net Factor Income from Abroad(NFIA) shows Negative value?

OR

State the meaning of retained earnings.

2

50. State any two precautions that are taken while estimating National income by Value Added Method.

OR

Distinguish between depreciation and capital loss.

2

51. 2022-23

(a) Read the following statements carefully:

Statement 1: Gross Domestic Product (GDP) is the sum total of the gross market value of all final goods and services added by all the sectors in the economy during a fiscal year.

Statement 2 : Gross Value Added at Market Price (GVAMP) is equal to the excess of value of output over intermediate consumption.

In the light of the given statements, choose the correct alternative from the following:

(a) Statement 1 is true and Statement 2 is false.

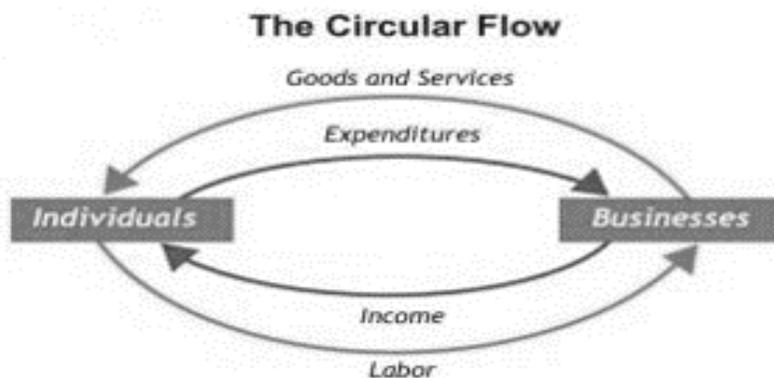
(b) Statement 2 is true and Statement 1 is false.

(c) Both Statements 1 and 2 are true.

(d) Both Statements 1 and 2 are false.

OR

(B) On the basis of the figures given below, identify the type of flow indicated by inner circle.



Alternatives:

(a) Real flow

(b) Nominal flow

(c) Money flow

(d) National flow

52. On the basis of the data given below for an imaginary economy, estimate the value of Net Domestic Product at factor cost (NDP_{fc}):

3

S.No.	Items	Amount in crores
1	Household consumption expenditure	2000
2	Government final consumption expenditure	1500
3	Gross Domestic Fixed Capital Expenditure	1000
4	Net additions to stock	300
5	Exports	700
6	Net indirect taxes	350
7	Imports	200
8	Consumption of fixed capital	250

53. (a) (i) "Many goods and services which may contribute to welfare, but are not included in estimating Gross Domestic Product (GDP)." Do you agree with the given statement? Give valid reason in support of your answer.

3

3

	<p>(ii) With suitable examples, distinguish between final goods and intermediate goods.</p> <p style="text-align: center;">OR</p> <p>(b)(i) Using a suitable numerical example, distinguish between Real Gross Domestic Product(GDP) and Nominal Gross Domestic Product (GDP).</p> <p>(ii) State the meaning of ‘Normal Resident’ of a country.</p>	<p>4</p> <p>2</p>																								
54.	<p>On the basis of the data given below for an imaginary economy, estimate the value of Net Domestic Product at factor cost(NDPfc):</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Items</th> <th>Amount (in crores)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Household consumption expenditure</td> <td>2000</td> </tr> <tr> <td>2</td> <td>Government final consumption expenditure</td> <td>1000</td> </tr> <tr> <td>3</td> <td>Gross fixed capital formation</td> <td>1100</td> </tr> <tr> <td>4</td> <td>Net additions to stock</td> <td>200</td> </tr> <tr> <td>5</td> <td>Exports</td> <td>600</td> </tr> <tr> <td>6</td> <td>Net factor income from abroad</td> <td>150</td> </tr> <tr> <td>7</td> <td>Imports</td> <td>400</td> </tr> </tbody> </table>	S.No.	Items	Amount (in crores)	1	Household consumption expenditure	2000	2	Government final consumption expenditure	1000	3	Gross fixed capital formation	1100	4	Net additions to stock	200	5	Exports	600	6	Net factor income from abroad	150	7	Imports	400	3
S.No.	Items	Amount (in crores)																								
1	Household consumption expenditure	2000																								
2	Government final consumption expenditure	1000																								
3	Gross fixed capital formation	1100																								
4	Net additions to stock	200																								
5	Exports	600																								
6	Net factor income from abroad	150																								
7	Imports	400																								
55.	<p>2023-24</p> <p>Read the following statements- Assertion (A) and reason (R). Choose one of the correct alternatives given below:</p> <p>Assertion (A): Real Gross Domestic Product is a better indicator of economic growth of a nation as compared to Nominal Gross Domestic Product.</p> <p>Reason (R): Real Gross Domestic Product measures the value of goods and services at current year prices.</p> <p>Alternatives:</p> <p>(A) Both Assertion (A) and Reason(R) are true and Reason(R) is the correct explanation of Assertion (A).</p> <p>(B) Both Assertion (A) and Reason(R) are true and Reason(R) is not the correct explanation of Assertion (A).</p> <p>(C) Assertion (A) is true, but Reason (R) is false.</p>	1																								

(D) Assertion (A) is false, but Reason (R) is true.

56. (A) Estimate the value of Net National Product at factor Cost (NNP_{fc}), using the following information:

3

S.No.	Items	Amount (in crores)
1	Household consumption expenditure	1200
2	Business Fixed Investment Expenditure	800
3	Government Final Consumption expenditure	500
4	Excess of imports over exports	100
5	Net Indirect Taxes	150
6	Change in Inventory	(-)50
7	Consumption of fixed capital	200
8	Net factor income from Abroad	80
9	Public fixed investment	70

OR

	<p>(B) “Disposition Phase of circular flow of Income involves flow of factor income, which comprises of rent, wages, interest and profits from firms to households.”</p> <p>Defend or refute the statement, giving valid reasons in support of your answer.</p>																
57.	<p>(A) “ In the past few decades, Indian economy has been fairly benefitted by positive externalities created by rapid rise in infrastructure.”</p> <p>Justify the given statement with valid arguments.</p> <p>(B) State the steps pertaining to the estimation of National Income by Value Added Method./Income Method/Expenditure Method.</p>	6															
58.	<p>2024-25</p> <p>Value Addition = ----- - Value of Intermediate Consumption.</p> <p>(Choose the correct options to complete the stated formula)</p> <p>(i) Domestic sales (ii) Sales – Change in stock (iii) Value of output (iv) (Number of units produced) x (Price per unit)</p> <p>Options:</p> <p>(A) (i) and (ii) (B) (ii) and (iii) (C) (ii),(iii) and (iv) (D) (iii) and (iv)</p>	1															
59.	State the meaning and significance of Gross Domestic Product(GDP) deflator.	3															
60.	<p>(a) (i) On the basis of the data given below, estimate the value of National Income(NNP_{fc})</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Items</th> <th>Amount(in crores)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Private final consumption expenditure</td> <td>2000</td> </tr> <tr> <td>2</td> <td>Government final consumption expenditure</td> <td>1500</td> </tr> <tr> <td>3</td> <td>Gross domestic fixed capital formation</td> <td>1000</td> </tr> <tr> <td>4</td> <td>Addition to stock</td> <td>400</td> </tr> </tbody> </table>	S.No.	Items	Amount(in crores)	1	Private final consumption expenditure	2000	2	Government final consumption expenditure	1500	3	Gross domestic fixed capital formation	1000	4	Addition to stock	400	4
S.No.	Items	Amount(in crores)															
1	Private final consumption expenditure	2000															
2	Government final consumption expenditure	1500															
3	Gross domestic fixed capital formation	1000															
4	Addition to stock	400															

5	Consumption of fixed capital	50
6	Net factor income from abroad	100
7	Net Indirect taxes	200
8	Net exports	700

(ii) Differentiate between Real Flow and Money flow.

2

OR

(b)(i) Gauhar, has recently completed her fashion designing studies and started a boutique. To produce dresses for sale, she purchased various materials, including a sewing machine, fabric, buttons and thread. These items are essential for producing the dresses. Classify the material purchased by Gauhar as Final or Intermediate goods, giving valid reasons in support of the classifications.

4

(ii) “National Income is always equal to Domestic income in a two sector economy.”

2

Defend or refute the given statement with valid reasons.



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

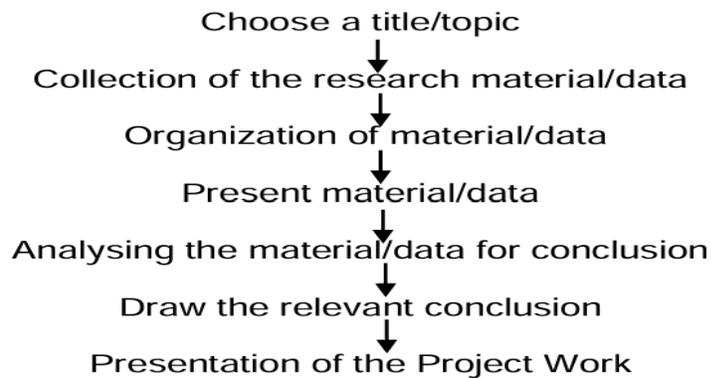
Subject: Economics, Teacher's Name: Ms. Laxmi Kaushik

Topic: Guidelines for Project Work

	<p>The objectives of the project work are to enable learners to:</p> <ul style="list-style-type: none">• probe deeper into theoretical concepts learnt in classes XI and XII• analyse and evaluate real world economic scenarios using theoretical constructs and arguments• demonstrate the learning of economic theory• follow up aspects of economics in which learners have interest• develop the communication skills to argue logically	
	<p>The expectations of the project work are that:</p> <ul style="list-style-type: none">• learners will complete only ONE project in each academic session• project should be of 3,500-4,000 words (excluding diagrams & graphs), preferably hand-written• it will be an independent, self-directed piece of study	
	<p>Role of the teacher:</p> <p>The teacher plays a critical role in developing thinking skills of the learners. A teacher should:</p> <ul style="list-style-type: none">• help each learner select the topic based on recently published extracts from the news media, government policies, RBI bulletin, NITI Aayog reports, IMF/World Bank reports etc., after detailed discussions and deliberations of the topic• play the role of a facilitator and supervisor to monitor the project work of the learner through periodic discussions• guide the research work in terms of sources for the relevant data• educate learner about plagiarism and the importance of quoting the source of the information to ensure authenticity of research work• prepare the learner for the presentation of the project work• arrange a presentation of the project file	

Scope of the project:

Learners may work upon the following lines as a suggested flow chart:

**Expected Checklist:**

- Introduction of topic/title
- Identifying the causes, consequences and/or remedies
- Various stakeholders and effect on each of them
- Advantages and disadvantages of situations or issues identified
- Short-term and long-term implications of economic strategies suggested in the course of research
- Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file
- Presentation and writing that is succinct and coherent in project file
- Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

Mode of presentation/submission of the Project:

At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner. **The questions should be asked from the Research Work/ Project File of the learner. The Internal Examiner should ensure that the study submitted by the learner is his/her own original work.** In case of any doubt, authenticity should be checked and verified.

Marking Scheme:

Marks are suggested to be given as –

S.No.	Heading	Marks Allotted
1	Relevance of the topic	3
2	Knowledge Content/Research Work	6
3	Presentation Technique	3
4	Viva-Voce	8
	Total	20 marks

Sequence of Pages in project file:

Page 1-Cover page

Page 2- Acknowledgment

Page 3-Certificate

Page 4- Content/Index

Page 5 to Page 29- text of practical

Page 30 – Bibliography/Remark



ARMY PUBLIC SCHOOL MEERUT CANTT

Holiday Homework 2025-26

Class: XII

Subject: Marketing , Teacher's Name: Manisha Singh

Instructions:	Attempt the following activities in the activity file, apply pictures, graphs, images, drawings, collage etc. into each activity.	
	UNIT I: PRODUCT	
Activity 1 .	Enlist the product levels of goods in the consumer products and services.	
2.	Activity: Identify and enlist different types of goods- consumer and industrial.	
3.	Prepare a list of products and observe how they have moved through different stages of product life cycle.	
4.	Detailing the concept of packaging & labelling. Use Sample Packages to describe the content on various types of Goods - consumer and industrial.	
	UNIT II: PRICE DECISION	
Activity 1 .	Identify different manufacturing and service organizations and gather information regarding their objectives associated with pricing.	
2.	Identify and enlist different internal and external factors affecting product price in different types of firms.	
3.	Prepare a list of various pricing policies that have been adopted by ten manufacturing and a service firm.	

ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: GEOGRAPHY, Teacher's Name: Ms. Renu Nimmi

Chapter 1 Data – Its Source and Compilation.



	<p>Instruction:</p> <ul style="list-style-type: none">❖ All the work should be handwritten and has to be done on A4 size one side ruled papers.❖ These pages should be combined in a ring file.❖ First page of your file is for Acknowledgement, second page is for Introduction of Project File, third page is for Index.❖ Attached graphs/pictures/tables where required on the left page.❖ Use only Black and Blue pen for writing.❖ Submit your work in the first week of July.	
	<p><u>Unit 1 - Chapter 1 Data – Its Source and Compilation.</u></p> <ul style="list-style-type: none">➤ Meaning and need of Data, Presentation of Data.➤ Sources of Data: (Method of Data Collection) Primary and Secondary source of Data,➤ Tabulation of Data, Data Compilation and Presentation: Absolute Data, Percentage/ Ratio, Index Number.➤ Processing of Data, Grouping of Data.➤ Process of classification: Frequency Distribution – Simple Frequency, Cumulative Frequency. Exclusive and Inclusive Method, Frequency Polygon, Ogive – Less than method, More than Method.	

(Give a brief description of the above. Use examples and tables from the book only.)



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: History, Teacher's Name: Ms. Pravesh Malik

**UNDER THE SUMMER SUN, LET YOUR IMAGINATION RUN FAST,
LET YOUR CREATIVITY EXCEL
AND YOUR LAUGHTER FILL THE AIR.
Happy Holidays !!**

Utilize your time judiciously during holidays and keep learning.

Here is the Holiday Home work to be completed – (Do any of the following)

1-DOCUMENTARY- IF YOU VISIT ANY OF THE HISTORICAL VISIT
PREPARE A DOCUMENTARY.

2-POWER POINT PRESENTATION ON ANY HISTORY TOPIC OF YOUR
CHOICE-25 SGOOGLE
LIDES

3-RESEARCH PAPERS ON ANY HISTORICAL MONUMENT OR
PERSONALITY

4-MOVIE REVIEW-Write a review report on any of the historical movie s of your
choice in
creative and analytical way

4-THEME BASED PROJECTS

Guidelines for project-

Every student have to prepare a project file on the topic allotted to them.

- The file should be of 30 to 35 coloured pages .
- It should be properly covered with colored sheet
- There should be Title of the topic at the top on the file cover.
- In the middle there should be an image/ Map related to the topic
- Aps Meerut should be written on the bottom along with name, Roll No and class section of student.
- Page 2 should be Certificate
- Page 3 Acknowledgement
- Page 4 Index with page numbers and sub topics
- Page 5 Map/ Image related to the topic and topic mentioned on the same page.
- Images/ Maps/ Graphs should be pasted on left page, information about

the image should be written below the image

- Time line, Flow charts, Maps should surely be used in the project
- There should surely be a conclusion of the topic
- On the last page Bibliography/ sourced used during research should be written.

A FEW SUGGESTIVE TOPICS FOR CLASS XII PROJECTS

1. The Indus Valley Civilization-Archaeological Excavations and New Perspectives
2. The History and Legacy of Mauryan Empire
3. “Mahabharat”- The Great Epic of India
4. The History and Culture of the Vedic period
5. Buddha Charita
6. A Comprehensive History of Jainism
7. Bhakti Movement- Multiple Interpretations and Commentaries.
8. The Mystical Dimensions of Sufism Global Legacy of Gandhian Ideas
9. The Architectural Culture of the Vijayanagar Empire
10. Life of Women in the Mughal Rural Society
11. Comparative Analysis of the Land Revenue Systems Introduced by the Britishers
in India
12. The Revolt of 1857- Causes; Planning & Coordination; Leadership, Vision of Unity
13. The Philosophy of Guru Nanak Dev
14. The Vision of Kabir
15. An Insight into the Indian Constitution
16. Comparative Study of Stupas and Pillar Edicts
17. Comparative Study of Mughal and Vijayanagar Architecture
18. Heroes of Revolt of 1857
19. Early Years of Freedom
20. Constituent Assembly Debates
21. Gandhi and National Movement
22. Gupta Period- the Golden era of Indian History
23. Agrarian policies of British in India
24. Partition of India
25. IBN Batuta, his travels and account of India
26. Al-Biruni and his Account of India
27. Francis Bernier, a doctor with a difference

	Complete worksheets of all four chapters uploaded in Google class room	
	Complete all maps of four chapters uploaded in Class room	



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: Political Science, Teacher's Name: Ms. Reshu Nain

	Written & Practical Tasks:	
1.	DOCUMENTARY- Prepare a documentary on OPERATION SINDOOR source- newspaper clippings, authentic sources.	
2.	Powerpoint presentation on any one political leader of your choice.- 20 slides	
3.	THEME BASED PROJECTS----- Guidelines for project- Every student has to prepare a project file on the topic allotted to them. * The file should be of 30 to 35 coloured pages . * It should be properly covered with coloured sheet. * There should be Title of the topic at the top on the file cover. * In the middle there should be an image/ Map related to the topic. * Aps Meerut should be written on the bottom along with name, Roll No. and class section of the student. * Page 2 should be Certificate. * Page 3 Acknowledgement * Page 4 Index with page numbers and sub topics * Page 5 Map/ Image related to the topic and topic mentioned on the same page. * Images/ Maps/ Graphs should be pasted on left page, information about the image should be written below the image * Time line, Flow charts, Maps should surely be used in the project * There should surely be a conclusion of the topic. * On the last page Bibliography/ sourced used during research should be written.	
4.	A FEW SUGGESTIVE TOPICS FOR CLASS XII PROJECTS (Do any of the following): 1. NAM- 1961 to present times. 2. CIS-Central Asian Republics. 3. Disintegration of USSR with special focus on Gorbachev. 4. Arab Spring 5. Cover the negative as well as positive aspects of relationship between India and the following countries. Focus on any one of the following (current updates should be highlighted): a. Relationship between India and Russia b. Relationship between India and China	

- c. Relationship between India and Pakistan
- d. Relationship between India and Bangladesh

- 6. NITI Aayog
- 7. FIVE YEAR PLANNING
- 8. India's nuclear programme
- 9. Nehru Era
- 10. Era of Coalition Government
- 11. UNITED NATIONS
- 12. Environment and resources
- 13. Globalization – Is it good for India?
- 14. SAARC
- 15. European Union
- 16. Shock therapy
- 17. Regionalism
- 18. Post communist countries
- 19. Jammu and Kashmir
- 20. North eastern states
- 21. Emergency
- 22. ASEAN



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: Home Science, Teacher's Name: Ms. Vaishali Teotia

“EXPLORE, EXPRESS & LEARN”

	<p>INSTRUCTIONS:</p> <ul style="list-style-type: none">• Choose any one project from the list.• Submit in a neatly labeled physical file.• Add headings, photos, and decorate your work.• Use clear handwriting and organize content properly.• Submission Date: First week of July <p>Project Options: (Any ONE to be completed)</p>	
1.	<p>COMMUNITY-BASED PROGRAMME STUDY</p> <p>Study a nutrition or health programme in your area. Include:</p> <ul style="list-style-type: none">• Programme objectives• Beneficiaries• How it works	
2.	<p>INTERVIEW ON PERCEPTIONS ABOUT SPECIAL NEEDS</p> <ul style="list-style-type: none">• Interview two adolescents and two adults• Ask them how they perceive people with special needs.• Present answers, analysis, and your reflection.	
3.	<p>PROFILE OF INDIVIDUALS WITH SPECIAL NEEDS</p> <p>Choose two people (child/adult) with special needs.</p> <p>Study there:</p> <ul style="list-style-type: none">• Diet and clothing• Activities• Physical & psychological needs	
4.	<p>HEALTH & NUTRITION COMMUNICATION</p> <ul style="list-style-type: none">• Design 5 awareness messages using posters/slogans/charts for different age groups.• Topics may include: healthy diet, hygiene, mental well-being, life skills.	

5.	MARKETSURVEYONPROCESSEDFOODS <ul style="list-style-type: none">• Visit a store and study 5 processed food items. Note down: <ul style="list-style-type: none">• Brand, label details, MRP, nutritional info, packaging features• Compare and conclude which is healthiest.	
6.	FORMATFORSUBMISSION <ul style="list-style-type: none">• Cover page with name, class, roll number• Index• Project title• Introduction• Main content (subheadings as per project choice)• Conclusion/reflection• Photos, charts/illustrations• Bibliography	



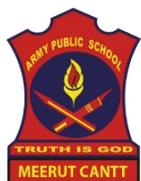
ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: Physical Education, Teacher's Name: Dr. Amit Kumar Singh

	INSTRUCTIONS: Students are instructed to the complete the following Holiday home Work during Summer Break.	
1.	Calculate the BMI of your family on plain chart.	
2.	Draw the Knock Out Fixture of 19 Teams on plain white chart describing the all steps involved.	
3.	Draw any Four Asanas as a Corrective measure of- Asthma, Obesity, Hypertension and Diabetes.	



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: Computer Science, Teacher's Name: Mr. Sachin Sharma

Topic: "Technology & Nature: Innovating for a Sustainable Future"

1.

Theme: "Technology & Nature: Innovating for a Sustainable Future"

Instructions for Students:

- Select **any one** of the following **interdisciplinary projects**.
- Submit a report in **typed PDF or handwritten project file** format.
- The report must include:
 - Title Page
 - Abstract (150 words)
 - Subject-wise Integration (How each subject contributed)
 - Procedure / Code / Data / Diagrams
 - Observations, Results, and Graphs
 - Conclusion & Learning Outcomes
- Use relevant **charts, photos, screenshots, and graphs**.
- Be creative and original.
- Submission Date: **[Insert date]**

Project Topics (Choose One or You can take any topic of your choice from the 17 Sustainable Development Goals)

Project 1: "Smart Garden Using Technology"

Computer Science:

- Write a Python program or flowchart to monitor plant needs using sensors.
- Use concepts of conditional logic, lists, or pseudo-code.

Physics:

- Study how sensors (like light, moisture, temperature) work.
- Measure energy used by a solar-powered garden.

Chemistry:

- Study effects of different soil pH or fertilizers on plant health.
- Make a chart of nutrient compositions (NPK) in soil.

Math:

- Create a data table and use statistical tools like mean, deviation, and frequency.

2.

- Represent soil/water/plant growth data graphically.

Project 2: “Harnessing Solar Energy at Home”

Computer Science:

- Simulate an energy calculator using Python/Excel to calculate daily solar energy generation and savings.

Physics:

- Explore concepts of **energy, power, and efficiency** in solar panels.
- Calculate energy output using formula: $E = P \times t$

Chemistry:

- Study the chemical structure of silicon used in solar cells.
- Research about future solar materials (perovskite, etc.)

Math:

- Apply **trigonometry** to optimize the panel angle.
 - Perform **ROI calculation** (Return on Investment) using percentage and profit-loss.
-

Project 3: “Air Quality Tracker and Analysis”

Computer Science:

- Collect and store live AQI data using an API or create a dummy dataset and visualize it using Python or Excel.
- Optional: Interface with Arduino and MQ135 sensor (if available).

Physics:

- Understand the functioning of gas sensors.
- Explore particulate matter and its physical properties.

Chemistry:

- Study pollutants (CO, NO_x, SO₂) and their chemical reactions in the atmosphere.
- Link chemistry of acid rain or smog.

Math:

- Use AQI data to calculate average, standard deviation.
- Create bar graphs, pie charts, or line plots.

3.

Project 4: “Water Purity and Filtration System Design”

Computer Science:

- Design a GUI-based water purity checker or filtration simulation using Python/Tkinter or Scratch.

Physics:

- Study principles of pressure, filtration, gravity in water purifiers.

Chemistry:

Perform basic water tests (pH, hardness, TDS using kits if available).

- Study water contaminants and chemical purification methods.

Math:

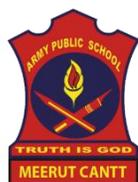
- Chart water usage data and perform average ratio comparisons.
- Design cost-efficiency models using simple equations.

Suggested Format for Submission

Section	Description
Cover Page	Project title, student name, class, roll number
Abstract	Summary of the project
Subject Integration	How each subject contributed
Procedure	Steps/code/experiment methods
Observations	Data, graphs, tables
Conclusion	Final insights and personal learning
References	Books, websites, articles

Assessment Criteria (Total: 50 Marks)

Parameter	Marks
Subject-wise Content Integration	10
Innovation & Creativity	10
Technical Accuracy	10
Presentation & Neatness	10
Timely Submission	10



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

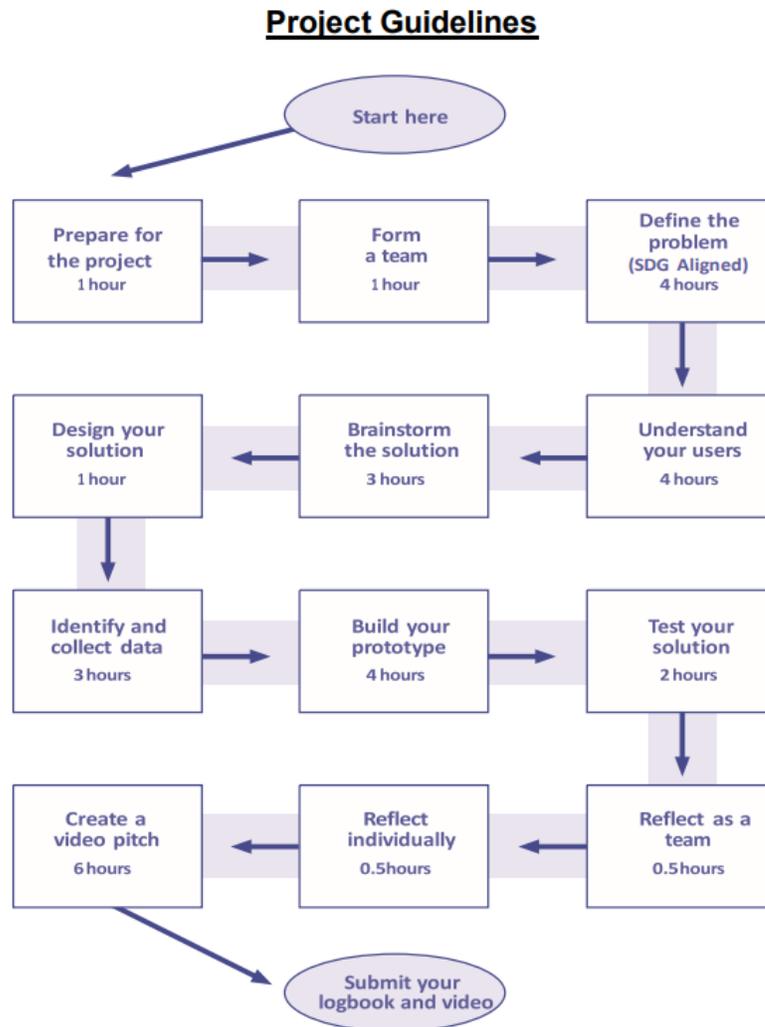
Subject: Artificial Intelligence, Teacher's Name: Ms. Yukti

Capstone Project + Practical Notebook

S. No.	Project Work
1.	<p>Make a group of not more than three participants and create Google drive folder with the team mates. To access the project cookbook, use the link below: https://cbseacademic.nic.in/web_material/Curriculum26/publication/srsec/AI_Projects_Cookbook_XIXII.pdf</p> <p>Fill in your project plan including the following sections (in tabular format):</p> <ul style="list-style-type: none">• Problem Statement• Users/ Stakeholders• Objectives• Features• AI feature integrated• Data required for the project• Proposed Solution• SDGs Involved <p>Submissions:</p> <ol style="list-style-type: none">1.) Google Drive Link: Containing the code (preferably ipynb file), dataset used, project plan with details of groupmates and schedule to be followed.2.) Project Presentation: File needs to include following heads:-<ol style="list-style-type: none">a.) Cover page: Your project should have a cover page that includes the title of the project, your name, class, roll number, school name, and the date of submission.b.) Table of contents: The project should include a table of contents that lists the different sections of the project and their corresponding page numbers.c.) Introduction: The introduction should provide a brief overview of the project, including the topic, objectives, and methodology.d.) Technology Used: Mention the technology integrated to develop the solution and explain the ML as well DL frameworks used.e.) Code with steps: Write the steps involved in developing the project as mentioned above and the supporting code.f.) Evaluation code: Explain the complete evaluation of the model and improvements if made. Calculate the accuracy, precision, recall and F1 score of the model.g.) Conclusion: The conclusion should summarize the main findings and draw conclusions based on the results.

- h.) References: Include a list of all the sources you used in your project.
- i.) Appendices: This section should include any additional material that supports your project, such as graphs, charts, tables, or photographs.

Project Guidelines for Reference:



** Kindly refer to the project training programs organized during April 2025.

Documents to be Uploaded in the folder below:

https://drive.google.com/drive/folders/1O10339ucWfKnmKeJuB7kZUHyFNN5_vOx?usp=sharing

Practical Notebook

1. **Topic: Exploratory Data Analysis & K-Nearest Neighbors (KNN) Classification on the Iris Dataset**
 Tasks to Perform:
 1. Download the Dataset:
 - o Download the Iris dataset from any open-source platform (e.g., Kaggle or UCI repository).

2. Data Loading & Inspection:
 - Load the dataset using the pandas library.
 - Display the first 10 rows and last 10 rows of the dataset.
3. Data Visualization:
 - Create the following plots using matplotlib or seaborn:
 - Boxplot for each feature (sepal length, sepal width, petal length, petal width)
 - Bar chart
 - Histogram
 - Scatter plots (pairwise scatter matrix or individual scatter plots)
4. Observations:
 - Note down observations on:
 - Outliers
 - Uniformity
 - Relationships
 - Trends across the features
5. Apply KNN Classification Algorithm:
 - Implement the K-Nearest Neighbors algorithm.
 - Make predictions on the test data.
 - Display the predicted output.
6. Record the Work:
 - Write the complete Python code and output screenshots in your AI Practical Notebook.

2. Topic: Regression Model on Housing Dataset

Tasks to Perform:

1. Download the Dataset:
 - Use the given link to access and download the housing.csv file:
https://drive.google.com/file/d/1xwFphRaHhY4DEGUJevH2wby6t9v_-mtO/view?usp=sharing
2. Load the Dataset:
 - Load the housing.csv dataset using the pandas library.
3. Train a Regression Model:
 - Apply a suitable regression algorithm (e.g., Linear Regression).
 - Train the model using the dataset.
4. Get Predictions:
 - Generate predictions using the trained regression model.
5. Record the Work:
 - Write the Python code and output screenshots in your AI Practical Notebook.



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: Multimedia-Animator, Teacher's Name: Ms. Sweety Singh

Topic: Introduction to Animation

Objective:

To dive into the exciting world of 3D animation and discover how ideas become visuals, characters come alive, and stories unfold frame by frame — all while having fun learning during your summer break!

TASK A – Creative Zone: (Choose any 2)

1. “My Character, My Hero”

Design your own animated character! Include:

- Front, side, and back view sketches
- At least 2 emotional expressions

2. “Set the Scene” – Layout Artist Challenge

Draw a creative background for your character or a scene. Add props, camera angle notes, and mood color cues.

3. Storyboard Challenge

Create a storyboard for a 30-second animation. Use stick figures, sketches, or digital tools.

TASK B – Think & Write: (Mandatory)

1. Define these essential animation terms in your own words (50–60 words each):

- Pre-Production
- Storyboarding
- Rigging
- Lighting
- Compositing
- Rendering

TASK C – Apply Your Skills: (Choose any 1)

1. “Your Creative Animation”

Make a short 10–15 sec animated clip using stop motion, flipbook, or digital software. Show a character move, jump, or express an emotion.

2. Poster Presentation – Pipeline in Pictures

Design a vibrant poster (digital or handmade) showing the **3D Animation Pipeline**: Pre-production → Production → Post-production. Use symbols, colors, and a short slogan!

Submission Guidelines:

- Format: Neatly compiled in a notebook, PDF, or PowerPoint
- Deadline: First Monday after school reopens
- Get creative! Use sketches, Canva, PowerPoint, or real materials
- Originality matters — let your imagination shine!

Have a Great Break and Keep Learning!



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: Hindustani Music Vocal, Teacher's Name: Mr. Gurmail Singh

THEME: INDIAN CLASSICAL MUSIC AND ITS CONNECTION TO NATURE

	Written & Practical Tasks:	
1.	COMMUNITY-BASED PROGRAMME STUDY Study a nutrition or health programme in your area. Include: <ul style="list-style-type: none">• Programme objectives• Beneficiaries• How it works	
2.	Practice the following Taal on hand beats (Taali-Khaali): <ul style="list-style-type: none">- Rupak Taal in Ekgun, Dugun, Tigun, and Chaugun- Observe how rhythm in nature (like wind, flowing water, or footsteps) can resemble the layered patterns in Taal.	
3.	Learn and Write Definitions of the following musical concepts: <ul style="list-style-type: none">- Alankar, Meend, Kan, Tana, Alap- Try to relate how these techniques mimic natural sound transitions, such as birdsong, breeze, or thunder.	
4.	Practice: <ul style="list-style-type: none">- Raag Bhairav – Aroh, Avroh, Pakad, and Bandish- Use a Harmonium mobile application if a harmonium is not available- Reflect on the mood of Raag Bhairav and its traditional association with dawn and the calm of nature.	
5.	Project Work (to be submitted in writing): <ul style="list-style-type: none">- Write detailed notes on:- Raag Bhairav and its Time Theory (how certain times of day influence the emotion of music)- Alankar, Meend, Kan, Tana, Alap – With definitions and examples- Rupak Taal – With Parichaya and notation in Ekgun, Dugun, Tigun, and Chaugun- Include a short reflection on how Indian classical music is influenced by and celebrates nature.	

ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XI

Subject: Painting(049), Teacher's Name: Ms. Suvidha Rani

Topic: Nature study (Homework)



		Internal marks
●	Learning Objective: Develop skills to observe and study the natural world, including its forms, textures, and colors and understand how to apply color theory principles to create harmonious and balanced color palettes inspired by nature.	
●	Assignment Instructions: Use only ivory sheet (21 x 14 inches) Or whatsmen sheet. (21 x 14 inches).	
●	Assessment Criteria: <ul style="list-style-type: none">● Research and creativity● Neatness and colour combination● Overall presentation● Timely submission	
●	Task 1: Landscape 1 landscape in hot colour, 2 landscape in cool colors. 3 landscape in multi colour (village scene). 4 landscape in pencil shading.	
●	Task 2: Composition (All in colour) 1 composition (modern art) from your course of study. Example: Mother and Child, Haldi Grinder, Bharatmata, Mother Teresa, Radhika.	

	<p>2 daily life scenes.</p> <p>3 Gautam Buddha.</p> <p>4 festival scene.</p>	
•	<p>Task 3 :</p> <p>Still Life Study: Draw and paint 10 still life arrangement of objects from a fixed point of view, focusing on capturing details and textures.</p>	
•	<p>Task 6:</p> <p>Make some MCQ based questions by their own from UT-1 and UT-2 and submit these questions in a question bank from with answer key.</p>	
•	<p>Deadline to submit : First day after summer vaca</p>	
•	<p>Have a Great Break and Keep Learning!</p>	



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: Psychology, Teacher's Name: Mr. Prashant Hooda

Topic: Guidelines for Project Work

1.	<p>Watch any two or more movies and prepare two reports explaining the psychological concept/disorder covered in the movies. The report must include specific psychological disorder/concept, causes, treatment, relevant data about affected population (in case of disorder), treatment methods/therapies and movie review.</p> <ul style="list-style-type: none">a) A Beautiful Mind (2001) (Hollywood)b) Good will Hunting (1997) (Hollywood)c) Rainman (1988) (Hollywood)d) Sixth Sense (1999) (Hollywood)e) Breathe into the shadows (2020) (Bollywood) – Starring Abhishek Bachchanf) The Girl on the Train (2021) (Bollywood) – Starring Parineeti Choprag) Fractured (2019) (Hollywood)h) Shutter Island (2010) (Hollywood)i) Split (2016) (Hollywood)j) Fall (2022) (Hollywood)k) Hypnotic (2021) (Hollywood) – Netflix	
2.	<p>Conduct an interview with an individual who has experienced stressful/traumatic event and find out the coping mechanism/strategy used by the individual to deal with that situation.</p> <p>Prepare a report analyzing the effectiveness of the strategy and suggest different coping techniques that could be used. Report must also include the summary of the interview along with the question-answer transcript.</p>	
3.	<p>NOTE: -</p> <ul style="list-style-type: none">a) All the projects are compulsory and both the projects should be compiled in a single file/folder.b) The report must be prepared on A4 size ruled papers.	



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: HINDI, Teacher's Name: Mr. Vivek Singh

1.	जयशंकर प्रसाद जी की भाषा पर संक्षिप्त टिप्पणी लिखिए।	
2.	भारतेन्दु मण्डल के प्रमुख लेखकों के नाम और उनकी रचनाओं की एक विस्तृत सूची बनाइए।	
3.	निराला जी की पूरी कविता 'सरोज स्मृति' पढ़िए, उसका सारांश लिखिए। और इस कविता में व्यक्त सामाजिक यथार्थ को अभिव्यक्त कीजिए।	
4.	अपनी किसी यात्रा का वृतांत लिखिए जिसमें उस स्थान लोगों और उनकी सामाजिक संरचना का भी वर्णन हो। इस यात्रा का नक्शा और कुछ चित्र भी पुस्तिका में चिपकाइए।	



ARMY PUBLIC SCHOOL MEERUT CANTT

[Affiliated to CBSE up to Sr. Sec. Level]

Class: XII

Subject: Legal Studies, Teacher's Name: Ms. Sujata Sindhu

	Multiple choice questions Reason and Assertion	
1.	(A) India has a Common Law Jurisdiction (R) Under this system the decisions ,orders and judgement help in the development of law and legal principles . a) Both A and R are correct b) Only A is correct c) Only R is Correct d) Both A And R are wrong	
2.	(A) District judges are also known as Metropolitan session judge (R) When District Judge is presiding over a State court ,which is designated as a Metropolitan area . a) Both A and R are correct b) Only A is correct c) Only R is Correct d) Both A And R are wrong	
3.	(A)Tribunals are full fledged part of judiciary (R) Tribunals consists of judges having legal background a) Both A and R are correct b) Only A is correct c) Only R is Correct d) Both A And R are wrong	
4.	(A) Attorney general has right to audience (R) He has the right to appear in the courts a) Both A and R are correct b) Only A is correct c) Only R is Correct	

	d) Both A And R are wrong	
5.	(A) Article 21 states right to life and personal liberty (R) It is extended to right to privacy ,livelihood etc a) Both A and R are correct b) Only A is correct c) Only R is Correct d) Both A And R are wrong	
6.	(A) The dilution of Locus Standi was a Part of Judicial Activism (R) It does not allow the victim to stand before the courts for attaining justice . a) Both A and R are correct b) Only A is correct c) Only R is Correct d) Both A And R are wrong	
7.	(A)Venkatachalliah Committee was formed in 2000 (R) It suggested for decreasing the retirement age of Supreme Courts judges from 65 years to 62 years. a. Both A and R are correct b. Only A is correct c. Only R is Correct d. Both A And R are wrong	
8.	(A) Justice Soumitra Send was impeached in 2011 (R) He was removed from the post as all allegation was proved against him . a. Both A and R are correct b. Only A is correct c. Only R is Correct d. Both A And R are wrong	
	True /False	
9.	PILs are based on the tenants of citizens standing and representative standing . a. True	

	b. False	
10.	The office of Solicitor General and additional Solicitor General is governed by Indian Constitution a. True b. False	
11.	Unlimited power to amend Constitution comes under basic Structure of Constitution as decided in Keshavnanda Bharti Case a.True b.False	
12.	For appointment of High Courts judges, the chief justice of HC and Governor of the State are not included for Consultation . a.True b.False	
13.	Article 181 of Indian Constitution states about judicial review by the courts . a.True b.False	
14.	Under original jurisdiction of Supreme Courts ,cases concerning citizen are also decided . a.True b.False	
15.	For appeals to be files in the Supreme Courts , the case must involve substantial question of law as to the interpretation of the Courts. a.True b.False	
16.	Due process of law does not follow the ideals of fairness, liberty, equality etc a.True b.False	

17.	Separation of power allows for liberty as it avoids concentration of powers in one branch . a.True b.False	
18.	A constitutional amendment was passed by Indian Parliament which curtailed the concept of „Federalism“ enshrined in the Indian Constitution. This amendment was held to be invalid by the Supreme Court of India. Here, by virtue of which theory / doctrine, the Supreme Court of India has invalidated the said constitutional amendment? (a) Principle of Natural Justice (b) Theory of Separation of Powers (c) Doctrine of Basic Structure (d) Principle of Legitimate Expectation	
19.	The residents of P.V. Colony have been paying for civic facilities to Municipal Department for last three years. During monsoons the roads developed cracks and pit holes. The residents requested for repair of the roads. However Municipal Department, which has the responsibility to provide for this ignored all requests of the residents in spite of continuous reminders. What immediate remedy is available to the residents of P.V. Colony under Article 32/226 of Indian Constitution? (a) Writ of Habeas Corpus (b) Writ of Quo-Warranto (c) Writ of Mandamus (d) Writ of Certiorari	
20.	Sushil was working with a government agency whose function was to formulate laws and policy for resolving telecom disputes in India. Identify the body: a. Telecom Dispute Settlement Appellate Tribunal b. Central Administrative Tribunal c. Telecom Regulatory Authority of India d. Regulator	

	Descriptive questions	
21.	<p>Nisha used to work with an NGO was shocked to see the conditions of people who were forcefully kept by the landlords to work in the fields ,saddened by their plight she decided to approach the court on their behalf to free them.</p> <p>I. Name the provisions under which Nisha can approach the court .</p> <p>II. State the common characteristics of litigations under this provisions .</p> <p>III. Mention the relevant case</p>	
22.	<p>Why is Keshavananda Bharti Vs. State of Kerela case regarded as a basic structure case? Explain the points discussed in the case and its impact on the working of Indian Constitution .</p>	
23.	<p>Project work</p> <p>Complete any 1 cases from the list given below .</p> <p>CONSTITUTIONAL CASES</p> <p>1.PIL CASE</p> <p>2.THREE JUDGES CASE</p> <p>3.MANEKA GANDHI V.UOI</p> <p>4.KESHAVNANDA BHARTI CASE</p>	