



Summer Vacation Holiday Home Work (2024-25)

Class- XII

Dear seemaxites

The much awaited summer vacations are round the corner! Holidays are the time for introspection and vacations are of course a time to reinvigorate and revive. In fact, the summer vacations are synonymous with fun, frolic and exploring new places. They are the happiest days in a student's life. Summer is indeed a great time to learn some fundamentals and lay the foundation for future learning.

Dear students,

Holidays are a great opportunity to relax and rewind by indulging in the activities that are pleasurable and at the same time educative. This is the time when skills can be nurtured and developed in your soft and evolving brains. So, during this period you will get to learn and do your work independently, without the support of your immediate teachers and classmates.

Your school has come up with a plethora of activities through the holiday homework where in you will get a chance to chisel your creativity and innate talent. Apart from spending quality time with your family members, engage yourself in recreational activities like:

Reading good books newspapers in order to stay updated and to enhance vocabulary.

Connecting with nature like gardening, observing growth

Of plants and making manure from kitchen waste, feeding the birds and animals, observing stars and moon.

Writing your daily diary, record your experiences and accomplishments.

Listen to the stories and experiences of your elders, success stories of people who never gave up.

Pursue your hobbies....sing, dance, paint, cook, capture, write.....you never know what might prove to be the turning point in your life.

Under the guidance of your parents choose the life skill activities (relevant to your age) and try to inculcate them in yourself.

Life Skills Activities:

1. Table Lay Out: From putting a napkin in the lap to clearing the plate off the table and everything in between, the child should learn the table manners.

2. Be a Folding Helper: Take help from mom to fold your clothes and become a folding helper at home.

3. Cupboard Helper: Sit with mom and organize your cupboard neatly.

4. Laying the Shoe Rack: Take help from the elders, clean your shoes properly and keep them well organized in your rack.

5. Prepare Lemonade: Squeeze the lemons, add some sugar syrup and mix the lemonade.

Serve it to your parents and grandparents.

6. Learn to do Gardening: Take an active participation in the growing of plants and water them daily.

7. Cleaning and other household chores: Involve yourself in household chores such as doing the laundry, making your bed, cleaning your room etc.

8. Learn to manage time: Allot specific amount of time for play and work.

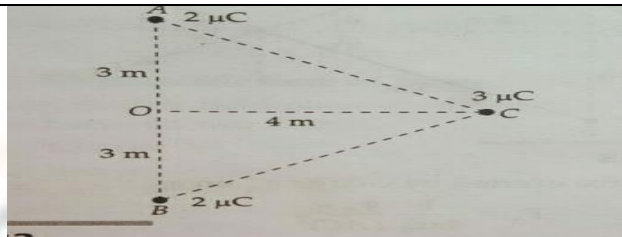
Last but not the least; be sure not to fizzle when the summer starts to sizzle. May this summer vacation help rejuvenate you for the next session of school.

We hope you all have a rewarding summer and hopefully, you will quickly develop a daily mantra of "What can I learn or discover today?"

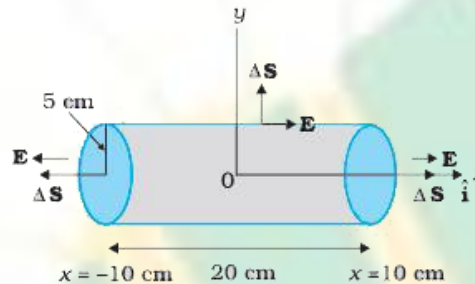
Stay safe Stay happy

S. No.	Subject	Assignment
1	English	<p>Job Application /Letter for Job</p> <p>1. You have realized the necessity of education and financial independence of women for their family, society and in turn for the nation. Write a letter to the Editor, 'The National Times', highlighting your ideas on the importance of education of women leading to a better status for them. You are Tarun/Taruna, B-7/9, Mall Road, Delhi. (120-150 words)</p> <p>2. National Book Trust organised a week-long book fair at Anna Grounds, Chennai. You visited the fair and bought a few books. You were pleased with the arrangements, enthusiasm of the visitors and the fact that books have not yet lost their relevance in the world of the Internet. Write a letter in 120-150 words to the editor of a local newspaper to express your feelings. You are Lalit/Latha, 112, Mount Road, Chennai.</p> <p>3. Lack of job opportunities in rural areas is forcing people to migrate to cities. Every big city thus has a number of slums in it. Life in these slums is miserable. Write a letter in 120-150 words to the editor of a national newspaper on how we can improve the living conditions in these slums. You are Karan/Karuna, M114, Mall Road, Delhi.</p> <p>4. When cricket teams go abroad they are allowed to take their wives, even friends, along with them. Does this fact distract them or help them to focus on their game in a better way? Why don't we allow our athletes to enjoy the same privilege? Write a letter to the editor of a national daily in 120-150 words, giving your views on the issue. You are Navtej/Navita, M-114, Mount Kailash, Kanpur.</p> <p>5. Sunshine Public School, Pune requires two sports coaches (one male and one female). Each should be a degree holder in physical education as well as a SAI certified coach in athletics. You have seen their advertisement and you know that you have these qualifications. Write an application in 120-150 words along with your resumé. You are Praveen/Praveena, M-114, Najafgarh, Delhi.</p> <p>5. Write an application (including a resumé) in 120-150 words for the post of a receptionist advertised in a national newspaper by JKL Publishers, Peshwa Road, Pune. You are Karuna, M114, Mall Road, Pune, a graduate from SNDT University and have done a Secretarial Practice Course from YWCA, Mumbai.</p> <p>6. You are Shilpa/Sameer living in Bengaluru. You have just completed your studies and are looking for a job. While browsing through the Hindustan Times of 08.05.2018, you come across the following advertisement. Choose a post for which you think you are suitable. Send your application in response to this advertisement</p> <p>An upcoming food processing unit in Golagaon requires the following staff :</p> <p>Food technologist: 2 yrs. degree/diploma in food technology having 1-2 yrs. lab experience.</p> <p>Accountant: B. Com. with minimum experience of 4-5 years in a manufacturing concern and conversant with sales tax laws.</p>

		<p>Receptionist: Young female candidates fluent in English with good communications skills and proficiency in computer/Net surfing with 2-3 years' experience.</p> <p>Please send your detailed resume within seven days to Manager, Fancy Foods, Sector 68 , Golagaon</p> <p>7. You see a classified advertisement in the newspaper inviting applications for the post of a Sales Executive in a reputed bank. Write a letter with bio-data in about 120-150 words to the HR Manager, HABC Bank, Lajpat Nagar, New Delhi, applying for the post advertised. You are Avani/Aviral of 120, Kirti Nagar, Delhi.</p> <p>8. Bal Vidya Public School, Bhilai, urgently requires a post-graduate teacher to teach Political Science for which they have placed an advertisement in The Bhilai Express. You are Sanjay/Sanjana Sharma from 21, Vasant Marg, Bhilai. Draft a letter including a CV, applying for the advertised post. (120-150 words)</p> <p style="text-align: center;">Flamingo / Vistas</p> <p>1 : Write the summary of the lesson of “The Tiger king”.</p> <p>2 : Write the summary of the lesson “ Lost Spring “ (Stories of Stolen Childhood) “</p> <p>3 : Write the summary of the poem “Keeping Quiet “.</p> <p>4 : Write the summary of the poem “ A Thing of Beauty”.</p> <p>5 : Write the summary of the poem “A Roadside Stand”.</p> <p>6 : Write the summary of the poem “ Aunt Jennifer’s Tigers”.</p>
2	Maths	<p>Revision Ch.1,2,3,4</p> <p>Prepare a chart at any topic of maths</p> <p>Lab Manual Activity 1,2,3,</p> <p>Solve the Assignment will be provide by subject teacher.</p>
3	Physics	<p><u>General Instructions:</u></p> <p>1. Do Holiday HW in Extra Question notebook (give heading SUMMER VACATION Holiday home work).</p> <p>2. Project / Homework will be assessed and awarded by an appreciation certificate on the basis of neatness and creativity.</p> <p>3. You may use different colour A4 size sheets for Biography project file.</p> <p>4. Design an attractive cover for your Holiday homework notebook and project.</p> <p>5. Make your ward revise assessment syllabus to be held in July.</p> <p>6. Holiday Homework needs to be submitted on the first day of reopening of school.</p> <p><u>CHAPTER -1: ELECTRIC CHARGES AND FIELDS</u></p> <p>1. A free pith-ball A of 8 g carries a positive charge of 5×10^{-8}C. What must be the nature and magnitude of charge that should be given to a second pith-ball B fixed at 5 cm below the former ball so that the upper ball is stationary?</p> <p>2. Two equal positive charges each of $2\mu\text{C}$ interact with a third positive charge of $3\mu\text{C}$ situated as shown. Calculate the magnitude and direction of force on the $3\mu\text{C}$ charge.</p>



3. An electric field is uniform, and in the positive x direction for positive x and uniform with the e magnitude in the negative x direction for negative x. It is given that
- A right circular cylinder of length 20 cm and radius 5 cm has its centre at the origin and its axis along the x-axis so that one face is at x = +10 cm and the other is at x = -10 cm
 - What is the net outward flux through each flat face ?
 - What is the flux through the side of the cylinder ?
 - What is the net outward flux through the cylinder ?
 - What is the net charge inside the cylinder.



- Derive an expression of electric field intensity at a point on equatorial axis of an electric dipole.
- Two-point charges +q and -2q are placed at the vertices B and C of an equilateral triangle ABC of side a. obtain the expression for magnitude and direction of resultant electric force at the vertex A due to these two charges.
- Two-point charges +q and -2q are placed at the vertices B and C of an equilateral triangle ABC of side a. Obtain the expression for magnitude and direction of resultant electric force at the vertex A due to these two charges.
- Show that the force on each plate of a capacitor has a magnitude equal to $QE/2$, where Q is the charge on the capacitor and E is the magnitude of the electric field between the plates of the capacitor. Explain the origin of factor $\frac{1}{2}$.
- Two small identical electrical dipoles AB and CD, each of dipole moment 'p' are kept at an angle of 120° as shown in Fig What is the resultant dipole moment of this combination? If this system is subjected to electric field (E) directed along +X direction, what will be the magnitude and direction of the torque acting on this.
- What are the magnitude and direction of electric field at centre of the square in fig, if $q=1.0 \times 10^{-8}$ C and $a=5$ cm.
- Two charges $-q$ are each fixed separated by a distance 2d. A third charge q of mass m placed at the midpoint is displaced slightly by x ($x \ll d$) perpendicular to the line joining the two fixed charges. Show that q will perform simple harmonic oscillation of time period

$$T = [8\pi^3 \epsilon_0 m d^3 / q^2]^{1/2}$$

CHAPTER – 2 : ELECTRIC POTENTIAL AND CAPACITANCE

- Can a metal sphere of radius 1 cm hold a charge of 1 coulomb? Justify your answer ?
- Is the electrostatic potential necessarily zero at a point where the electric field strength is zero ? Give an example to illustrate your answer.
- Work done by an electrostatic field is independent of the path followed between two points. Justify?
- Define the term

polarisation of a dielectric medium. Write its S.I unit.

5. The space between the plates of a parallel plate capacitor of capacitance C is filled with three dielectric slabs of equal thickness as shown in Fig. If the dielectric constants of the three slabs are K_1 , K_2 , and K_3 find the new capacitance.



6. A capacitor is charged to potential V_1 . The power supply is disconnected and the capacitor is connected in parallel to another uncharged capacitor. i) Derive the expression for the common potential of the combination of capacitors. ii) Show that total energy of the combination is less than the sum of the energy stored in them before they are connected. 7. Deduce the expression for the potential energy of a system of two charges q_1 and q_2 located r_1 and r_2 respectively in an external field. 8. A $2\mu\text{F}$ capacitor with a dielectric slab ($K=5$) between its plates is charged to 100V and then isolated. (i) What will be the p.d if the dielectric is removed? (ii) How much work would be done in removing the dielectric? 9. Four point charges $+1\mu\text{C}$, $+1\mu\text{C}$, $-1\mu\text{C}$ and $-1\mu\text{C}$ are placed at the corners of A, B, C and D of a square each of side 0.1m . (i) Calculate potential at the centre O of the square (ii) If E is the middle point of BC, what is the work done in carrying an electron from O to E? 10. An infinitely long positively charged wire has a linear charge density λcm^{-1} . An electron is revolving around the wire as its centre with a constant velocity in the circular plane perpendicular to the wire. Deduce the expression for KE of the electron. Plot a graph of KE as a function of charge density λ .

Topics for Physics investigatory project

- To observe diffraction of light due to a thin slit
- To build simple electric motor or electromagnetic crane and understand the working of electromagnetism
- To understand working of a rectifier
- To study the phenomenon of diffraction of light
- To study about photoelectric effect
- To find resistivity of wires in different metals by using OHM'S LAW
- To study parallel and series combination in capacitors
- To study charging and discharging of a capacitor
- To study various factors on which the internal resistance/EMF of a cell depends.
- To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle.
- To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self-designed transformer
- To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids
- To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in

		<p>series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency</p> <ul style="list-style-type: none"> • Full Wave Rectifier • Thermoelectric Generator • AC Generator • Optical Fiber • Total internal reflection • Atom • Nuclei
4	Chemistry	<p style="text-align: center;">ASSERTION AND REASON [ELECTROCHEMISTRY]</p> <p>Given below are two statements labelled as Assertion (A) and Reason (R) Select the most appropriate answer from the options given below:</p> <p>(i). Both A and R are true and R is the correct explanation of A (ii). Both A and R are true but R is not the correct explanation of A. (iii). A is true but R is false. (iv). A is false but R is true. (v). Both A and R are false.</p> <ol style="list-style-type: none"> 1. Assertion: E_{cell} should have a positive Reason: $E_{\text{cathode}} < E_{\text{anode}}$ 2. Assertion: Mercury cell does not give steady potential. Reason: In the cell reaction, ions are not involved in solution. 3. Assertion: Cu is less reactive than hydrogen. Reason: $E_{\text{Cu}^{2+}/\text{Cu}}^0$ is negative. 4. Assertion: Copper sulphate cannot be stored in zinc vessel. Reason: Cu is more reactive than zinc. 5. Assertion: $E_{\text{Ag}^+/\text{Ag}}$ increases with increase in concentration of Ag^+ ions. Reason: $E_{\text{Ag}^+/\text{Ag}}$ has a positive value. 6. Assertion: Current stop flowing when $E_{\text{cell}} = 0$ Reason: Equilibrium of the cell reaction is attained. 7. Assertion: For measuring resistance of an ionic solution an AC source is used. Reason: Concentration of ionic solution will change if DC source is used. 8. Assertion: Conductivity of an electrolyte decrease with decrease in concentration Reason: Number of ions per unit volume increase on dilution. 9. Assertion: Conductivity decrease for weak electrolyte and increase for strong electrolyte with decrease in concentration. Reason: On dilution, the number of ions per unit volume that carry the current decreases. 10. Assertion: Electrolysis of NaCl solution gives chlorine at anode instead of O_2. Reason: Formation of oxygen at anode requires overvoltage.

		<p style="text-align: center;">SOLUTION</p> <ol style="list-style-type: none"> 1. Why is increase in temperature observed on mixing chloroform with acetone ? 2. Sugar is covalent compound but it is soluble in benzene. Explain. 3. What are antifreeze solution? Which substance is generally used in it? 4. The intermolecular forces between solute and solvent particles becomes less than solute-solute or solvent-solvent particles. This solution form which type of azeotropic solution ? Give one example. 5. Why solubility of solid and liquids not affected by pressure but solubility of gas affected. Explain. 6. A sea water fish cannot survive in fresh water . Give reason. 7. Heptane and octane form ideal solution but nitric acid and water not form ideal solution explain. 8. Write the physical states of solute and solvent in the following solutions: (i) coloured gems (ii) Hydrated salts. 9. Give reason for the following When mercuric iodide is added to an aqueous solution of KI, the freezing point is raised. 10. Define the following terms: (i) Solubility (ii). lowering in vapour pressure
5	Biology	<ol style="list-style-type: none"> Q1. Do previous years questions from chapters 1-4. Q2. Do NCERT exercises of chapter 1-4. Q3. Make a working or nonworking mode or Chart from any related topic from subject. Q4. Do practice of given assignment questions. Q5. Make an investigatory project from given topic according to your roll no. <p>Topics for Biology investigatory project</p> <ol style="list-style-type: none"> 1. Pollination adaptations 2. Seed dispersal mechanisms and significance of dispersal 3. Outbreeding devices in flowering plants and its significance 4. Polycystic ovarian syndrome 5. Reproductive health/ Sexually Transmitted Diseases 6. Genetic Disorders 7. Chromosomal disorders 8. Cystic fibrosis 9. Colour Blindness 10. Haemophilia 11. Sickle cell anaemia 12. Thalassemia 13. Congenital defects- causes and possible remedies 14. Operon concept 15. Human Genome Project 16. DNA Fingerprinting and its applications

		<p>17. Evolution 18. Malaria: Treatment and prevention 19. Cancer (can take specific Cancer) 20. AIDS 21. Immunity 22. Allergies 23. Auto- immune diseases (Rheumatoid Arthritis) 24. Drugs and their abuse 25. Alcohol abuse 26. Microbes in human welfare 27. Tools of biotechnology 28. Global warming 29. Applications of biotechnology 30. RNA interference 31. Gene therapy 32. Transgenic animals 33. Responses of living organisms to abiotic factors in environment. 34. Adaptations in living organisms 35. Population interactions 36. Ecosystem services: How much do we care? 37. Biodiversity and conservation practices in Indian culture 38. Habitat destruction and biodiversity loss 39. Biodiversity and in situ and ex situ conservation 40. Medicinal plants in our surroundings.</p> <p>Note: All work should be done in separate notebook or on assignment papers. Project must be in assignment file. First four pages (Front page, Certificate, Acknowledgement and index) and last page (Bibliography) should be printed or typed.</p>
6	Computer Science	<p>Q1 Read a text file line by line and display each word separated by # symbol. Q2 Read a text file and display the number of vowels/ consonants/ uppercase/ lowercase characters in the file. Q3 Remove all the lines that contain the character `a' in a file and write it to another file. Q4 Write a random number generator that generates random numbers between 1 and 6 (simulates a dice) Q5 Write a Python program to implement a stack and queue using a list data-structure. (Database related program) Q1 Write a Program to connect with database. Q2 Create a student table and show table.</p>

		<p>Q3 Insert student records into student table</p> <p>Q4 To add a new column city in the above table with appropriate data type</p> <p>Note- Written work should be done in assignment paper/ separate notebook.</p>
7	Physical Education	<p>1-Daily physical Fitness schedule to be followed:</p> <p>Boys: Run & walk test, Skipping, Bent Knee sit-ups, Push-ups, Free hand exercise & Pull-ups & shuttle Run. (Do write in chart paper.)</p> <p>Girls: Run & walk test, Skipping, Bent Knee sit-ups, Modified push-ups, Free hand exercise & shuttle Run. (Do write in chart paper.)</p> <p>2-Write the procedure, benefits and contraindications for any two asanas for each lifestyle diseases (Obesity, Diabetes & Hypertension in Chart papers.</p> <p>3-Draw a field / court and equipment rules terminology. Do use of thermacoal Sheets. (Any one game of your choice from the IOA recognized sport/games)</p> <p>4-Draw a sports person colorful. (Do use of chart paper.)</p> <p>5-Draw the fixtures of these teams on the knockout basis 23 & 20 with all steps. (Do Use A4 size sheets)</p> <p>6-Draw the fixtures of these teams on the league (Cyclic, Staircase & Tabular methods) basis 10 & 11 with all steps. (Do Use A4 size sheets)</p> <p>GUIDELINES:</p> <ul style="list-style-type: none"> ☒ Use A4 size sheets & Charts only. ☒ The project could be in 10 – 20 pages(Max) ☒ Must be hand written only ☒ Must include a creative cover page and Index. ☒ Hard copies in File/Folders. ☒ Innovation and Creativity also carries marks. ☒ It is an individual project and marks will be awarded in Half Yearly and Annual Examination during practical Examination.
8	Accountancy	<p>Prepare Board Practical file (Spiral only)</p> <p>Select a Company</p> <ol style="list-style-type: none"> 1. Front Page 2. Acknowledgment 3. Certificate 4. Index 5. Company Introduction 6. Chairperson detail with photo 7. Product detail with photo 8. Balance Sheet (2 year)

		<p>9. Statement of Profit and Loss (2 year)</p> <p>10. Notes to Accounts</p> <p>11. Comparative Balance Sheet</p> <p>12. Comparative Statement of Profit and Loss</p> <p>13. Common Size Balance Sheet</p> <p>14. Common Size Statement Profit and Loss</p> <p>15. Ratio with detail atleast 8 to 10</p> <p>16. Cash Flow Statement detailed</p> <p>17. Conclusion</p> <p>18. Teacher Remark</p>
9	Economics	<p>1. Make a creative chart of circular flow of income in two sector of economy.</p> <p>2. Draw a chart showing all the components of different methods of finding national income.</p> <p>3. Do all numerical problems of chapter 4 national income in your notebook</p>
10	Business Study	<p>1. Students are advised to select one unit out of four (as per discussion in the class) and are required to make only ONE project from the selected unit (topic allotted in the class). (Consist of one project of 20 marks)</p> <p><u>I. Project One: Elements of Business Environment</u> students select any one element from the following:</p> <p>1. Changes witnessed over the last few years on mode of packaging and its economic impact. The changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates, etc. Reasons for above changes.</p> <p>a) Milk being supplied in glass bottles, later in plastic bags and now in tetra-pack and through vending machines.</p> <p>b) Plastic furniture [doors and stools] gaining preference over wooden furniture.</p> <p>c) The origin of cardboard and the various stages of changes and growth.</p> <p>d) Brown paper bags packing to recycled paper bags to plastic bags and cloth bags.</p> <p>e) Re use of packaging [bottles, jars and tins] to attract customers for their products.</p> <p>f) The concept of pyramid packaging for milk.</p> <p>g) Cost being borne by the consumer/manufacturer.</p> <p>h) Packaging used as means of advertisements.</p> <p>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. Students gather information about the times when India sold Coca Cola and Fanta which were being manufactured in India by the foreign companies. The students may be asked to enquire about</p> <p>a) Reasons of stopping the manufacturing of the above mentioned drinks in India THEN.</p> <p>b) The introduction of Thums up and Campa cola range.</p> <p>c) Re entry of Coke and introduction of Pepsi in the Indian market.</p> <p>d) Factors responsible for the change.</p> <p>e) Other linkages with the above.</p> <p>f) Leading brands and the company having the highest market share.</p>

- 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.
 - j) Other observations made by the students
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?
The students 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.

II. Project Two: 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.

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

Fayol's principles

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

13. Stability of tenure.
14. Authority and Responsibility

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.

III. Project Three: Stock Exchange

The purpose of this project is to teach school students the values of investing and utilising the stock market. This project also teaches important lessons about the economy, mathematics and financial responsibility.

The basis of this project is to learn about the stock market while investing a specified amount of fake money in certain stocks. Students then study the results and buy and sell as they see fit.

This project will also guide the students and provide them with the supplies necessary to successfully monitor stock market trends and will teach students how to calculate profit and loss on stock.

The project work will enable the students to:

- ☐ understand the topics like sources of business finance and capital market
- ☐ understand the concepts used in stock exchange
- ☐ inculcate the habit of watching business channels, reading business journals/newspapers and seeking information from their elders.

The students are expected to:

- a) Develop a brief report on History of Stock Exchanges in India. (your country)
- b) Prepare a list of at least 25 companies listed on a Stock Exchange.
- c) To make an imaginary portfolio totalling a sum of Rs. 50,000 equally in any of the 5 companies of their choice listed above over a period of twenty working days.

The students may be required to report the prices of the stocks on daily basis and present it diagrammatically on the graph paper.

- ☐ They will understand the weekly holidays and the holidays under the Negotiable Instruments Act. They will also come across with terms like closing prices, opening prices, etc.
- ☐ During this period of recording students are supposed to distinctively record the daily and starting and closing prices of the week other days under the negotiable instrument act so that they acquire knowledge about closing and opening prices.
- ☐ The students may conclude by identifying the causes in the fluctuations of prices. Normally it would be related to the front page news of the a business journal, for example, ☐ Change of seasons. ☐ Festivals.
- ☐ Spread of epidemic.

- ☒ Strikes and accidents
- ☒ Natural and human disasters.
- ☒ Political environment.
- ☒ Lack of faith in the government policies.
- ☒ Impact of changes in government policies for specific industry.
- ☒ International events.
- ☒ Contract and treaties at the international scene.
- ☒ Relations with the neighbouring countries.
- ☒ Crisis in developed countries, etc.

1. The students are expected to find the value of their investments and accordingly rearrange their portfolio. The project work should cover the following aspects; 1. Graphical presentation of the share prices of different companies on different dates.
2. Change in market value of shares due to change of seasons, festivals, natural and human disasters.
3. Change in market value of shares due to change in political environment/ policies of various countries/crisis in developed countries or any other reasons
4. Identify the top ten companies out of the 25 selected on the basis of their market value of shares. It does not matter if they have made profits or losses.

IV. Project Four: Marketing

- | | |
|-------------------------|--------------------|
| 1. Adhesives | 39. Microwave oven |
| 2. Air conditioners | 40. Mixers |
| 3. Baby diapers | 41. Mobile |
| 4. Bathing Soap | 42. Moisturizer |
| 5. Bathroom cleaner | 43. Music player |
| 6. Bike | 44. Nail polish |
| 7. Blanket | 45. Newspaper |
| 8. Body Spray | 46. Noodles |
| 9. Bread | 47. Pen |
| 10. Breakfast cereal | 48. Pen drive |
| 11. Butter | 49. Pencil |
| 12. Camera | 50. Pickles |
| 13. Car | 51. Razor |
| 14. Cheese spreads | 52. Ready Soups |
| 15. Chocolate | 53. Refrigerator |
| 16. Coffee | 54. RO system |
| 17. Cosmetology product | 55. Roasted snacks |
| 18. Crayons | 56. Salt |
| 19. Crockery | 57. Sarees |

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

37. Ladies bag

38. Ladies Footwear

58. Sauces/

Ketchup

59. Shampoo

60. Shaving cream

61. Shoe polish

62. Shoes

63. Squashes

64. Suitcase/ airbag

65. Sunglasses

66. Tea

67. Tiffin Wallah

68. Toothpaste

69. Wallet

70. Washing

detergent

71. Washing

machine

72. Washing

powder

73. Water bottle

74. Water storage

tank

75. Wipes

76. Learning Toys

77. Lipstick

Students should not choose items whose consumption/use is discouraged by the society and government like alcohol products/pan masala and tobacco products, etc.

Identify one product/service from the above on which you may like to manufacture/provide [pre-assumption].

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

1. Why have they selected this product/service?
2. Find out '5' competitive brands that exist in the market.
3. What permission and licences would be required to make the product?
4. What are your competitors Unique Selling Proposition.[U.S.P.]?
5. Does your product have any range give details?
6. What is the name of your product?

7. Enlist its features.
8. Draw the 'Label' of your product.
9. Draw a logo for your product.
10. Draft a tag line.
11. What is the selling price of your competitor's product?
 - (i) Selling price to consumer
 - (ii) Selling price to retailer
 - (iii) Selling price to wholesaler

What is the profit margin in percentage to the

Manufacturer. Wholesaler. Retailer.

12. How will your product be packaged?
13. Which channel of distribution are you going to use? Give reasons for selection?
14. Decisions related to warehousing, state reasons.
15. What is going to be your selling price?
 - (i) To consumer
 - (ii) To retailer
 - (iii) To wholesaler
16. List 5 ways of promoting your product.
17. Any schemes for
 - (i) The wholesaler
 - (ii) The retailer
 - (iii) The consumer
18. What is going to be your 'U.S.P.?
19. What means of transport you will use and why?
20. Draft a social message for your label.
21. What cost effective techniques will you follow for your product.
22. What cost effective techniques will you follow for your promotion plan.

At this stage the students will realise the importance of the concept of marketing mix and the necessary decision regarding the four P's of marketing.

- Product
- Place
- Price
- Promotion

On the basis of the work done by the students the project report should include the following:

1. Type of product /service identified and the (consumer/industries) process involve there in.
2. Brand name and the product.
3. Range of the product.
4. Identification mark or logo.

		<ol style="list-style-type: none"> 5. Tagline. 6. Labeling and packaging. 7. Price of the product and basis of price fixation. 8. Selected channels of distribution and reasons thereof. 9. Decisions related to transportation and warehousing. State reasons. 10. Promotional techniques used and starting reasons for deciding the particular technique. 11. Grading and standardization. <p>Presentation and Submission of Project Report</p> <p>At the end of the stipulated term, each student will prepare and submit his/her project report.</p> <p>Following essentials are required to be fulfilled for its preparation and submission.</p> <ol style="list-style-type: none"> 1. The total length of the project will be of 30 to 35 pages. 2. The project should be handwritten. 3. The project should be presented in a neat folder. 4. The project report should be developed in the following sequence- <ul style="list-style-type: none"> ☐ Cover page should include the title of the Project (in 3D view), student information, school and year. ☐ List of contents. ☐ Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped). ☐ Introduction. ☐ Topic with suitable heading. ☐ Planning and activities done during the project, if any. ☐ Observations and findings of the visit. ☐ Conclusions (summarized suggestions or findings, future scope of study). ☐ Photographs (if any). ☐ Appendix ☐ Teacher's observation. ☐ Signatures of the teachers. ☐ At the completion of the evaluation of the project, it should be punched in the centre so that the report may not be reused but is available for reference only. ☐ The project will be returned after evaluation. The school may keep the best projects. 	
11	History	<ol style="list-style-type: none"> 1. List the items of food available to people in Harappan cities. Identify the groups who would have provided these. 2. How do archaeologists trace socio-economic differences in Harappan society? What are the differences that they notice? 3. Would you agree that the drainage system in Harappan cities indicates town planning? Give reasons for your answer. 4. Describe some of the distinctive features of Mohenjo-Daro. 5. Discuss the functions that may have been performed by rulers in Harappan society. 6. On the map of India use a pencil to circle the sites where evidence of agriculture has been recovered. Mark an X against sites 	

		<p>Where there is evidence of craft production and R against sites where raw materials were found.</p> <ol style="list-style-type: none"> 7. Use map from ncert book and fill it. 8. Discuss the evidence of craft production in Early Historic cities. In what ways is this different from the evidence from Harappan Cities? <p>Chapter 2 History</p> <ol style="list-style-type: none"> 1. Describe the salient features of mahajanapadas. 2. How do historians reconstruct the lives of ordinary people? 3. Compare and contrast the list of things given to the Pandyan chief (Source 3) with those produced in the village of Danguna (source 8). Do you notice any similarities and differences? 4. Discuss the main features of Mauryan administration. Which of these elements are evident in the Asokan inscriptions that you have studied? 5. This is a statement made by one of the best-known epigraphists of the twentieth century, D.C. Sircar: “There is no aspect of life, Culture, activities of the Indians that is not reflected in inscriptions.” Discuss. 6. To what extent were agricultural practices transformed in the period under consideration?
12	Political Science	<ol style="list-style-type: none"> 1. What do you understand by Two Nations Theory? 2. How Hyderabad merged with India? Explain. 3. What are the Challenges of Nation Building? 4. What are the consequences of Partition? 5. How Manipur became the part of India? Explain <p>Make projects on the following topics.</p> <p>Each student will explain the project individually in the class after summer holidays.</p> <ol style="list-style-type: none"> 1. Women’s involvement in politics and social decay in India. 2. India’s democratic consolidation and the creation of an independent national electoral commission. 3. The impact of banditry on the socioeconomic endeavours of the states of Eastern India. 4. Political leadership and the advancement of economies in developing nations. 5. Leadership and followership as a strategy for fostering national development. 6. India’s democratic elections and social media. 7. Effective conflict resolution and governance. 8. The issues with globalisation and India’s socio-economic development. 9. How do people view the misuse of democracy in the context of socio-political development? 10. Women’s cooperative societies’ role in fostering community development. 11. A critical analysis of sociocultural norms that prevent women from engaging in politics

CHAPTER 1: VARIATIONS OF PSYCHOLOGICAL ATTRIBUTES

MULTIPLE CHOICE QUESTIONS

- a) Rashi is distinct from her classmates and always differs from them in all behavioral patterns. This phenomenon is known as
- b) A violent child tends to behave submissively and nicely in front of the principal. This changes in his behavior is due to
- c) Charles Spearman prepared a
1. Two Factor Theory 2. Level One Level Two theory 3. Theory of Primary mental abilities\
- d) Guilford gave a model of
1. 150 Cells 2. 180 Cells 3. 170 Cells 4. 120 Cell
- e) Spatial Ability refers to
1. Skills in forming visual images and patterns
2. Sensitivity to feature natural world
3. Using the body flexibility and creatively
- f) Experimental intelligence refers to
1. Analysis of information 2. Ability to deal with environment 3. using past experience creatively
- g) Simultaneous and successive processing is a part of
1. Triarchic theory 2. PASS model theory 3. Multiple intelligence Theory
- h) Binet's first successful attempt to formally measure intelligence took place in the year 1.
1912 2. 1920 3. 1905 4. 1910
- i) The concept of the intelligence quotient was devised by
1. Alfred Binet 2. Simon 3. Williams Stern 4. Robert Stern Berg
- j) People with low average intelligence have an IQ range of
1. 90-109 2. 80-89 3. 70-79 4. Above 130
- k) The First organized program for retarded was started by Seguin in the year 1.
1947 2. 1837 3. 1920 4. 1825
- l) is an individual test which is made up of variety of subtests
1. WAISWechsler's Adult Intelligence scale 2. Draw a man test 3. Alexander's pass along

Q1) "Roma is a 10 years old girl how has an exceptional general ability which can be seen in wide variety of areas"

- a) Which ability is been discussed here?
b) Explain its important characteristics in detail?

Q2) Differentiate between the following

- a) Culture Fair and culture bias test
b) Individual and group test

13

Psychology

c) Verbal, Non verbal and performance tests

d) Talent and giftedness. Give Examples

Q3) Explain the various domains of Psychological attribute that categorizes variety of tests.

Q4) How is Psychometric approach different from information processing approach?

Q5) Explain the theory of Primary mental abilities?

Q5) "According to the structure of intellect model traits are divided into three parts- Products, contents and Operations"
Justify

Q6) How is intelligence an interplay of nature and nurture?

Q7) "According to various psychologists' one must guard against the erroneous practices associated with Intelligence".
Justify

Q8) What is technological intelligence? How does it vary from culture to culture?

c) Give the Indian traditional view of intelligence?

Q9) What role does Emotional intelligence play in an individual's life?

Q10) "Sharad is a class XIIth boy who is generally known as the emotionally intelligent guy of the class" What characteristics do you think makes Sharad an emotionally intelligent boy?

CHAPTER 2: SELF AND PERSONALITY

Q1) Differentiate between:

a) Personal and social Identity

b) Self as a subject and an object

Q2) What are the various types of self? Explain with the help of examples.

Q3) "Reema is a 17 yrs old girl who is obese and is not able to have a control over her diet."
What tips would you give her to monitor her behavior for self control?

Q4) What are the variations that exist between the western and the Indian cultural perspective about self?

Q5) " Personality characterizes individuals as they appear in most circumstances". Justify by explaining its characteristics in detail.

Q6) How does the Indian concept of Ayurveda classify people and their Personality?

Q7) "Ravi is a 25 yrs old youth who possesses high motivation, lacks patience, feels short of time & is always pressured by work".

- a) Which type of personality do you think Ravi is possessing?
- b) What are the other types of personality that may exist?
- c) Name the psychologists who have given these types of Personality?

Q8) How are traits different from types? Give examples.

Q9) Using Allport's theory, Identify the various types of traits in the given situation. Explain them in detail.

"Supriya is a very warm and friendly girl who is often known as the FLORENCE NIGHTINGALE of the class. She is a very traditional girl who always prefers to wear Indian or ethnic clothes. She hates the western culture especially the trend of going to parties and discotheque."

Q10) Explain Paul Coasta's and Robert Mc Crae's personality theory?

Q11) "According to Freud ,structural elements of personality reside in the unconscious as forces and can be inferred from the way people behave" Justify

Q12) Name the psychologists who who worked with freud but later separated and developed their own theories?

Q13) Explain the Psychosexual development theory given by freud?

Q!4) "Rahima is a7yrs old girl who lives in an orphanage. She is very clear with the abstract concepts like Religion, god, unity and oneness without anyone's guidance or teaching."

- a) Which personality theory do you think relates to such experiences?
- b) Name the psychologist who gave this theory?
- c) Explain the theory and its concepts in detail?
- d)

Q15 Distinguish between the Source and surface traits given by Raymond Cattell? Give examples.

Q16) Identify and define the Defense mechanisms given below:

- a) "A student having a strong desire to cheat in the exam, is not able to do so because of the strong revolt by the conscious within. So he suspects that the other classmates might be cheating.
- b) A boy who was reared to believe that sex is evil and dirty may become anxious every time sexual feelings surge to the surface. So in order to defend against the anxiety, he joined the groups against sex in media.
- c) A tense father who had troubles in office gave a harsh beating to the child who was watching T.V. The father gave the excuse that he was acting for the child's good.

d) A weak student going for a movie just one day before the exams gives the excuse of “need to relax” to do the exam well.

e)

Q17) “Psychodynamic theories have faced a lot of challenges and criticism from the Neo and Post Freudians”. Explain these criticisms by picking up examples from the Freudian theory.

Q18) How is Horney’s theory different from that of Freud’s .

Q19) what are the common characteristics of Humanistic theories?

Q20) Differentiate between Oedipus and Electra complex?

Q21) “A healthy person not only adjusts to the society but also has a quest to know oneself deeply”. Explain in the context of Humanistic approach.

MULTIPLE CHOICE QUESTIONS

Q1) _____ refers to the attributes of a person that makes him different from the others

- a) Social identity b) Familial identity c) Personal identity

Q2) Goals and ideas that are considered important and worthwhile to achieve is known as _____.

- a) Character b) Disposition c) Trait d) Values

Q3) The way we perceive ideas and ourselves we hold about our competencies is called _____.

- a) Self Esteem b) Self Efficacy c) Self Regulation d) Self Concept

Q4) The tendency of a person to react to given situation in a particular way is called ____.

- a) Temperament b) Trait c) Character d) Disposition

Q6) The value judgment of one’s own value or worth is called__.

- a) Self regulation b) Self Concept c) Self Esteem d) Self Efficacy

Q7) Cattell applied a statistical technique called_ to find the various types of traits.

Q8) _____ guna includes intensive activity, desire for self-gratification and envy for others.

- a) Tamas guna b) Rajas Guna c) Sattva Guna

Q9) _____ refers to rewarding behavior’s that have pleasant outcome.

a) Self Instruction b) Self Control c) Self-Regulation d) Self Reinforcement Q10) Type C and D personality was suggested by_____.

- a) Binet b) Sternberg c) Morris d) Friedman

Q11)_____approach focuses on the specific psychological attributes along which individuals tend to differ in consistent and stable ways

- a) Interactional approach b) Type approach c) Trait approach

Q12) Freud used_____method in which a person is asked to openly share all the thoughts and ideas that comes to the client's mind.

- a) Dream interpretation b) Free association c) Word Association d) Freudian Slip

Q13) Eysenck proposed a third dimension called_____.

- a) Extraversion b) Psychotism c) Neuroticism

Q14)_____works on the pleasure principle.

- a) Superego b) Conscious c) Subconscious d) Id

Q15)_____proposed important typology by grouping people into Extraverts and Introverts

Q16) Freud said that_____is energized by life and death instinct.

- a) Id b) Ego c) Super Ego

Q17) The way of reducing anxiety by distorting reality is called_____.

- a) Libido b) Psychoanalysis c) Defense Mechanisms

Q18) Analytical Psychology was developed by_____.

- a) Sigmund Freud b) Raymond Catell c) Carl Jung d) Gordon Allport

Q19) When parent's behavior towards a child is discouraging or indifferent, a feeling of_ results.

- a) Free floating anxiety b) Basic anxiety c) Generalized anxiety

Q20) The theory of instrumental conditioning was developed by_.

- a) Albert Bandura b) B.F. Skinner c) Ivan Pavlov d) Wolfgang Kohler.

14	painting	<p>List of Practical works:</p> <p>1. Object Drawing :-</p> <p>For exam object drawing by placing the object in front of the student and to let them draw. For example:</p> <p>(i) A pot and glass to be arrange on the table. (ii) A book placed under the apple to be arrange on the table. (ii) Chair table and flower vase placed on the table etc.</p> <p>(Should be done with pencil or water colour)</p> <p>2. Painting and composition :-</p> <p>Free hand drawing directly from life of Human Figures, Building, Interior of a Room, Bus stop, Market, place, Vehicles, etc. paint on a given topic like e.g. Festival, Fair, Railway Station, Man reading a book or newspaper, playing with your pet, Eating out, Night scene, rainy day, wedding, Gram Panchayat, pollution, Library, Mother&Child etc. using imagination and everyday sketches. (Water colour or Acrylic colour or colour pencil would be used)</p> <p>3. Folk Art as Motif :-</p> <p>Use the motif of folk art of your locality or any well-known India folk art. (Example-Madhubani, Worli, Kalamkari, Kalighat, Phar and Alpana/Rangoli etc) To re arrange a composition in your own style.</p> <p>(Any colour or black and white are allowed only for folk painting).</p> <p>NOTE:- USE ONLY A3 SIZE SHEETS.</p>
----	----------	--