CLASS XII HOLIDAY HOMEWORK (2024-25)

Dear Students,

Go through the Holiday H. W. given below and act accordingly

MATHEMATICS:

1. Complete your notebook.

2. Make a project/Model on "Mathematics around Us".

3. Do 15 - 15 questions from each chapter (1-3) from previous years question bank.

4. Prepare for test after vacation (1st and 2nd chapter).

CHEMISTRY:

1. Chromatography

   a) To separate the coloured components present in the mixture of red and blue inks by paper chromatography and find their Rf values.

2. Preparation of inorganic compounds

a) Prepare crystals of ferrous ammonium sulphate (Mohr's Salt)

3. Salt Analysis /Determination of anion and ration in the given salt

 a) Ammonium chloride

b) Lead acetate

c) Aluminum Sulphate

d) Calcium chloride

e) Ammonium sulphate

f) Calcium carbonate

g) Ammonium carbonate

h) Aluminum chloride

4. Volumetric Analysis

a) Prepare 250 ml of M/20 solution of oxalic acid

b) Prepare 250 ml of M/20 Mohr's salt solution

c) Prepare 100 ml of M/10 Mohr's salt solution

d) Prepare 250 ml of N/10 Oxalic acid solution

e) Prepare 250 ml of N/10 Mohr's salt solution

f)Prepare M/20 standard solution of ferrous ammonium sulphate (Mohr's Salt) Using this solution find out the molarity of the potassium permanganate solution.

g) Prepare M/20 standard solution of Oxalic acid. Using this solution find out the molarity of the given potassium permanganate.

Write the Practicals in lab manual only, don't use simple practical copy.

PHYSICS:

SECTION–A

1. To determine resistivity of two / three wires by plotting a graph for potential

Difference versus current.

2. To determine resistance of a galvanometer by half-deflection method and to find its

Figure of merit.

3. To convert the given galvanometer (of known resistance and figure of merit) into a

Voltmeter of desired range and to verify the same.

SECTION-B

1. To find the value of v for different values of u in case of a concave mirror and to find

The focal length.

2. To find the focal length of a convex mirror, using a convex lens.

3. To find the focal length of a convex lens by plotting graphs between u and v

or between 1/u and 1/v.

4. To find the focal length of a concave lens, using a convex lens.

5. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.

6. To determine refractive index of a glass slab using a travelling microscope.

Write the Practicals in lab manual only, don't use simple practical copy.

BIOLOGY:

Q1) Prepare a temporary mount to observe pollen germination.

Q2) Study the plant population density, frequency by quadret method.

Q3) Isolate DNA from available plant material such as spinach,pea seeds,papaya etc.

Q4) Prepare a temporary mount of onion root tip to study mitosis**.**

ENGLISH:

1. ASL Project (any chapter of Flamingo)

   It should include the following headings-

   1. Cover page

   2. Objectives of the project

   3. Certificate of completion

   4. Material evidence

   5. Action Plan

   6. Project Report

   7. Student's Reflection

   8. Conclusion

   9. Bibliography

 2. Notices-

1. You are Josely Mathew, the President of the school book club. The club is organising a drive for promoting reuse of study materials and books. Draft a notice in about 50 words, for the school notice board addressing students of classes X-XII, informing them about this drive and urging them to contribute to the endeavour. Mention how the donated books would benefit a charitable cause.

2 As the House Captain of A.B.M. Public School, Telangana, draft a notice in not more than 50 words for the school noticeboard informing House members from X-XII about the change in topic and submission dates for round 1 of 'Discovery the upcoming Inter-House Research-based paper Presentation competition. Do not forget to issue an apology for the above. Your are Kruthika Reddy,

A.B.M. Public School, Telangana

3. You are Vijay Veena, Head Boy/Girl of Minerva Public School, Bhopal. Your school is planning to organise a Career Counselling Workshop for the students of classes 9-12. Draft a notice in about 50 words informing students about the workshop mentioning day, date, time and venue.

3. Letters-

  1. You are Sujoy/Sujata of Nehru Colony, Indore. You recently visited Shimla with your family. You were perturbed to see the tourists throwing empty water bottles and cans all over the place. Write a letter to the editor of national daily in about 120-150 words expressing your concern and offering suggestions to improve the situation. Use the given cues along with your own ideas to compose the letter.

2.You have realised 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)

VISTAS

  Topic 1.The Third Level.

        LEARN....

      - All extracts

      - All short Q-A.

      - All long Q-A.

COMMERCE:

ACCOUNTANCY:

Project Work

One specific project based on financial statement analysis of a company covering any two aspects from the

Following:

1. Comparative and common size financial statements

2. Accounting Ratios

3. Segment Reports

4. Cash Flow Statements

ECONOMICS:

Project Work in Economics:

•   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

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

Topics:

Micro and Small Scale Industries

* Food Supply Channel in India

* Contemporary Employment situation in India

* Disinvestment policy of the government

 • Goods and Services Tax Act and its Impact on GDP

* Health Expenditure (of any state)

* Human Development Index

* Inclusive Growth Strategy

* Self-help group

 • Trends in Credit availability in India

* Monetary Policy Committee and its functions

* Role of RBI in Control of Credit

* Government Budget & its Components

* Trends in budgetary condition of India

 • Exchange Rate determination – Methods and Techniques

 • Currency War – reasons and repercussions

 • Livestock – Backbone of Rural India • Alternate fuel – types and importance • Sarva Shiksha Abhiyan – Cost Ratio Benefits • Golden Quadrilateral- Cost ratio benefit • Minimum Support Prices • Relation between Stock Price Index and Economic Health of a Nation • Waste Management in India – Need of the hour • Minimum Wage Rate – Approach and Application • Digital India- Step towards the future • Rain Water Harvesting – A solution to water crisis • Vertical Farming – An alternate way • Silk Route- Revival of the past • Make in India – The way ahead • Bumper Production- Boon or Bane for the farmer • Rise of Concrete Jungle- Trend Analysis • Organic Farming – Back to the Nature • Aatmanirbhar Bharat • e-Rupee (e- ₹) • Sri Lanka's Economic Crisis • Sustainable Development Goals (SDG's) • Environmental Crisis • Comparative Study of Economies (Maximum three economies) • New Education Policy (NEP) 2020: A Promise for a New Education System • G-20: Inclusive and Action Oriented • Amrit Kaal: Empowered and Inclusive Economy • Cashless Economy • Any other newspaper article and its evaluation on basis of economic principles • Any other topic

BUSINESS STUDIES

PROJECT ONE: 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

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

PROJECT TWO : MARKETING

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	11. Butter	12. camera
13. Car	14. Cheese Spreads	15.Chocolate	16. Coffee
17. Cosmetology Product	18. Crayons	19. Crockery	20 . Cycle
21.DTH	22. Eraser	23. Fairness Cream	24. Hair Oil
25. Hair Dye	26. Roostedn Snacks	27. Shampoo	28. Shaving Cream
29. Jeans	30. Jams	31. Jewellery	32. Kurti
33. Ladies Bag	34. Lipsticks	35. Microwave	36. Mobile
37. Tea	38.Toothpaste	39. Washing Powder	40. Washing Machine

Any other…..

Identify one product/service from the above which the students 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 Five ways of promoting your product.
17. Any schemes for:
(1) 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
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

PRESENTATION AND SUBMISSION OF PROJECT REPORT

At the end of the stipulated term, each student will prepare and submit his/her project report Following essentials are required to be fulfilled for its preparation and submission:

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 folder.
4. The project report should be developed in the following sequence:

■Cover page should include the title of the Project, 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.

HISTORY:

Make a detailed report on Harappan Civilization/

Bhakti Sufi traditions by using concerning pictures etc.

POLITICAL SCIENCE:

Make a detailed project on End of Bipolarity or any other topics from part-2 (political Sc.book)

Use necessary pictures etc.

COMPUTER SCIENCE:

Write any five Program on Python on the basis of Conditional, iterative statements, list, tuple and dictionary.