



HERITAGE CHILDREN ACADEMY

(Senior Secondary School Affiliated to CBSE, New Delhi)

NH-24, Jalif Nagla, Teh- Milak, Distt. Rampur (U.P) 244701

SESSION : 2024-25



SUMMER

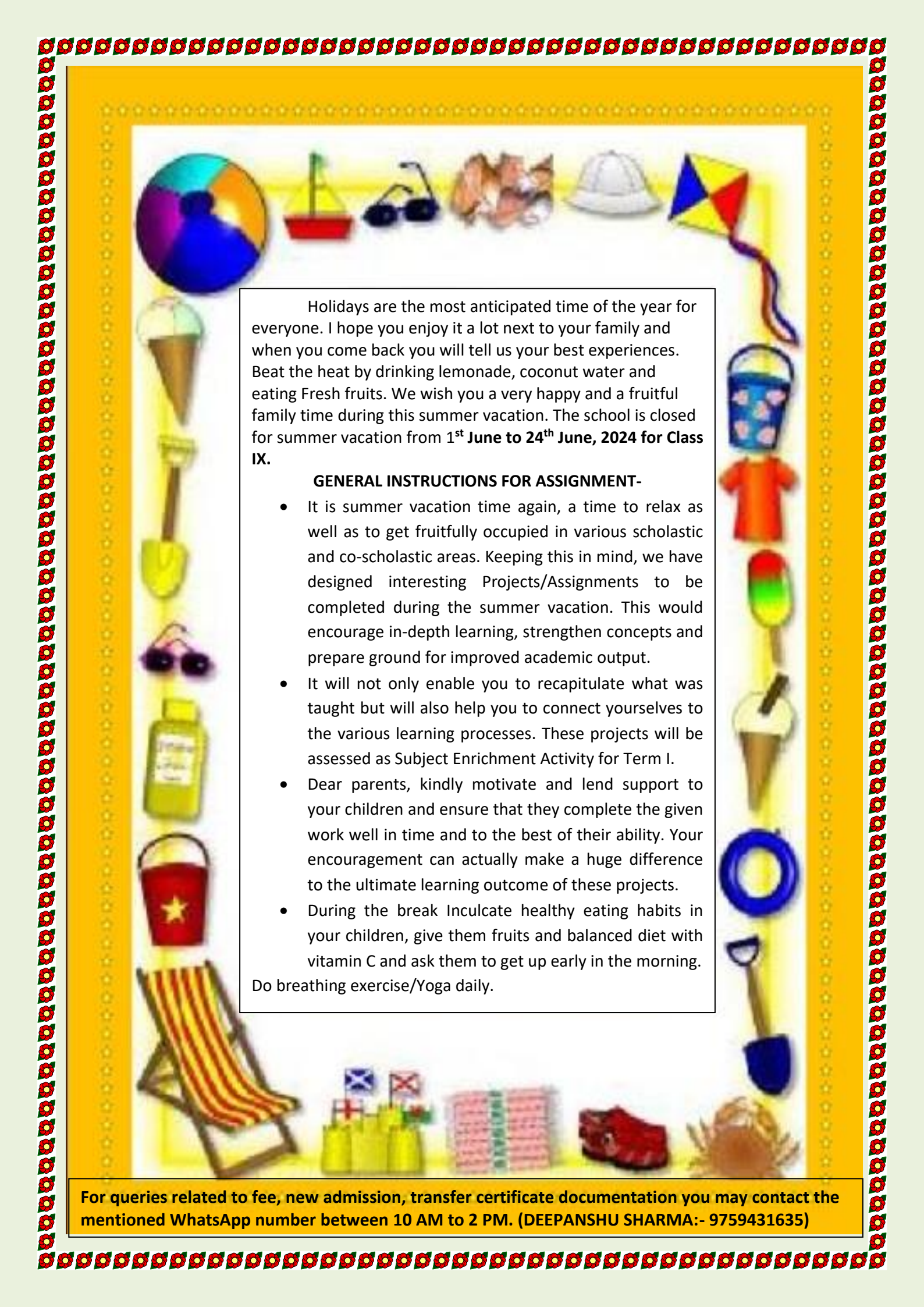
VACATION



Homework

CLASS: XII

www.heritagemilak.com



Holidays are the most anticipated time of the year for everyone. I hope you enjoy it a lot next to your family and when you come back you will tell us your best experiences. Beat the heat by drinking lemonade, coconut water and eating Fresh fruits. We wish you a very happy and a fruitful family time during this summer vacation. The school is closed for summer vacation from 1st June to 24th June, 2024 for Class IX.

GENERAL INSTRUCTIONS FOR ASSIGNMENT-

- It is summer vacation time again, a time to relax as well as to get fruitfully occupied in various scholastic and co-scholastic areas. Keeping this in mind, we have designed interesting Projects/Assignments to be completed during the summer vacation. This would encourage in-depth learning, strengthen concepts and prepare ground for improved academic output.
 - It will not only enable you to recapitulate what was taught but will also help you to connect yourselves to the various learning processes. These projects will be assessed as Subject Enrichment Activity for Term I.
 - Dear parents, kindly motivate and lend support to your children and ensure that they complete the given work well in time and to the best of their ability. Your encouragement can actually make a huge difference to the ultimate learning outcome of these projects.
 - During the break Inculcate healthy eating habits in your children, give them fruits and balanced diet with vitamin C and ask them to get up early in the morning.
- Do breathing exercise/Yoga daily.

For queries related to fee, new admission, transfer certificate documentation you may contact the mentioned WhatsApp number between 10 AM to 2 PM. (DEEPANSHU SHARMA:- 9759431635)

ENGLISH

1. MARKING SCHEME

- The project consists of **10 MARKS**.
- Out of which, **5 MARKS** will be allotted for the **PROJECT FILE**,
- And remaining **5 MARKS** for the **VIVA** based on the file.
- The **viva** will be conducted by the **EXTERNAL EXAMINER**.

2. CONTENT OF THE PROJECT FILE:

The project file may include the following:

- **Cover page**, with the title of the project, school details and details of the student (**sample will be sent**)
- **Certificate of Completion** under the guidance of the teacher (**sample will be sent**)
- **Objectives** of the topic
- **Action Plan** for the completion of assigned tasks (**steps involved in doing the project**)
- The 800-1000 words essay/report
- Student reflections (**what new learning experience/outcome you have achieved after completing the project**)
- If possible, **photographs** that capture positive learning experience of the students (**collages/pics from various online sources**)
- **List of Resources/Bibliography (Last page of the project file)**

3. TOPICS:

INSTRUCTIONS:

- Refer to the links of the videos attached with each topic (You can also select different videos available on YouTube, relevant to your topic)
- Listen to these podcasts, documentaries, interviews etc. on the given topics
- Do a thorough research on the topic assigned
- Prepare a report/essay in about 800-1000 words describing the topic/issue/giving your own opinion/suggestions/measures/viewpoints/its impact on people/your learning experience
- You can also state the name of various speakers/people (in the given documentaries/video links), quote them and express their viewpoints
- The project should be neat, legible, with an emphasis on quality of content, accuracy of information, creative expression, proper sequencing and should be relevant as per your assigned topic

PROJECT TO BE TYPED ON A4 SHEET.

- No repetition or copying of project work would be accepted.
- Please don't share your work with anyone. If the External examiner points out any repetition or copying of the project, the consequences would be severe.
- No marks will be awarded for a casual approach of completing the project

- There are 15 topics. Topics are distributed Roll-No Wise
- Roll no 16 will get topic no 1 and so on...

Given below is a list of some suggestive topics for the project.

1. MENTAL HEALTH DURING COVID TIMES:

Links for reference:

- <https://www.youtube.com/watch?v=xzNMABRELPg>
- <https://www.youtube.com/watch?v=CVvGvoMRUhk>
- https://www.youtube.com/watch?v=UE_H9QhGktE

2. BIOTERRORISM (BIOWAR & BIO WEAPONS):

Links for reference:

- <https://youtu.be/Faftnz8cg7E>
- <https://youtu.be/b6NI97v2buc>
- https://youtu.be/6Af6b_wyiwl

3. DRUG ABUSE, DRUG TRAFFICKING & ADDICTION:

Links for reference:

- <https://youtu.be/pzhD2MyelbY>
- <https://youtu.be/b6Dte96WdqM>
- <https://youtu.be/lwP9H9qTuUY>

4. CYBER CRIME AND SECURITY:

Links for reference:

- <https://youtu.be/AVBlvtEthtc>
- <https://youtu.be/DpjoZGOONiQ>
- https://youtu.be/1A3sQO_bQ_E

5. ONLINE AND OFFLINE TEACHING DURING COVID: (Due to COVID, education industry has seen many new startups, discuss how this has affected many in positive and negative way)

Links for reference:

- <https://youtu.be/8FKR35OidyU>
- https://youtu.be/PVM3_0_nKSI
- <https://youtu.be/7XyvN5dPTxE>

6. PATRIARCHY AND FEMALE SUBJUGATION:

Links for reference:

- <https://youtu.be/R0LXAC2PXuU>
- <https://youtu.be/MRfDzznfEOU>
- <https://youtu.be/H-9fTS5cAiA>

7. NATIONWIDE LOCKDOWN HAS LED A DENT ON ECONOMY (Discuss in detail)

Links for reference:

- <https://youtu.be/NbvrG1FR1X0>
- <https://youtu.be/9ndmW5RLhPg>
- <https://youtu.be/JmGfqusjxeo>

8. MOB LYNCHING:

Links for reference:

- <https://dai.ly/x7gq8sz>
- https://youtu.be/Jox_CYyitGU

<https://economictimes.indiatimes.com/news/politics-and-nation/government-sets-up-4-member-committee-to-suggest-measures-to-deal-with-mob-lynching/videoshow/65107450.cms>

9. GENERATION GAP:

Links for reference:

<https://youtu.be/IEqX4QhMj3k>

<https://youtu.be/uEd6dhOegn4>

<https://youtu.be/p656FvLHupY>

10. SOCIAL NETWORKING PLATFORMS: IS SOCIAL MEDIA AN EFFECTIVE TOOL FOR QUICK AND CONVENIENT COMMUNICATION, OR IS IT JUST A SOPHISTICATED MEANS FOR STALKING PEOPLE?

Links for reference:

<https://youtu.be/ABOgsV2XTEk>

<https://www.intelligencesquaredus.org/?jwsourc=cl>

https://www.ted.com/talks/cal_newport_why_you_should_quit_social_media

11. DO YOU THINK THE SIGHTINGS OF UFOS ARE TRUSTWORTHY? DO ALIENS REALLY EXIST?

Links for reference:

<https://youtu.be/ZBtMbBPzqHY>

<https://youtu.be/30r45P1JFys>

<https://youtu.be/EVBCLAaflaw>

12. SHOULD ANIMAL TESTING BE BANNED?

Links for reference:

<https://youtu.be/G393z8s8nFY>

<https://youtu.be/FfRQDgu6pX4>

<https://youtu.be/Mo25wUKNySg>

13. CLIMATE CHANGE IS THE GREATEST THREAT FACING HUMANITY TODAY:

Links for reference:

<https://youtu.be/vy3gMVGwjuc>

https://youtu.be/cl4Uv9_7KJE

<https://youtu.be/ViboIJvWqiw>

14. VIOLENT VIDEO GAMES SHOULD BE BANNED:

Links for reference:

https://youtu.be/uaf_Xjz6Mxs

<https://youtu.be/vxUeDliBYMY>

<https://youtu.be/gv1SsYeKXXE>

15. THE DEVELOPMENT OF ARTIFICIAL INTELLIGENCE WILL HELP HUMANITY:

Links for reference:

<https://youtu.be/wTbrk0suwbg>

<https://youtu.be/-orTIDWqBN0>

<https://youtu.be/ZJixNvx9BAc>

7. NATIONWIDE LOCKDOWN HAS LED A DENT ON ECONOMY (Discuss in detail)

HINDI

प्रश्न - निम्नलिखित बिंदुओं के आधार पर एक प्रोजेक्ट फाइल तैयार करें -

- विभिन्न कवियों की कविताओं का तुलनात्मक अध्ययन
- भाषा शैली , विशेषताएं

विषय - "हिंदी कविता में प्रकृति चित्रण" पाठ , उषा, बगुलों के पंख, छोटा मेरा खेत के आधार पर एक प्रोजेक्ट फाइल तैयार करें !

RUBRICS

अभिव्यक्ति + सौंदर्यकरण + विषय ज्ञान= 2+2+6=10

MATHS

Note: Do all activities in your Lab manual neatly.

Activity 01: To verify that the relation R in the set L of all lines in a plane defined by $R = \{(l, m) : l \parallel m\}$ is an equivalence relation.

Activity 02: To demonstrate a function which is one-one but not onto.

Activity 03: To demonstrate a function which is one-one and onto.

Activity 04: To explore the principal value of the function $\sin^{-1} x$ using a unit circle.

Activity 05: To verify that the angle in semi-circle is a right angle, using vector method.

Rubrics

- Content - 05M
- Presentation - 03M
- Neatness - 02M
- Total - 10M

PHYSICS

According to CBSE project marks 3 maximum

Topics:

1. Electric charge and field
2. Capacitor
3. Dielectric materials
4. Moving coil galvanometer
5. PN junction diode
6. Transformer
7. Ac generator
8. Current electricity
9. Magnetic materials
10. EMI
11. AC circuit
12. Atom
13. Nuclei
14. Electromagnetic wave
15. Light Reflection and refraction
16. Interference and diffraction of light

Rubrics

- Presentation = 03 M
- Content = 03 M
- Neatness = 02 M

CHEMISTRY

- Make a Chemistry project atleast 10 to 15 pages for Chemistry Board practical. Topics are given below.

Topics

1. Colligative Properties
2. Electrochemical Cell
3. Corrosion
4. d- Block Elements
5. Werner's Theory
6. Valence Bond Theory of Coordination Compounds
7. Crystal Field Theory
8. Haloalkanes
9. Haloarenes
10. Alcohols
11. Phenols
12. Ethers
13. Aldehydes and Ketones
14. Carboxylic Acids
15. Carbohydrates
16. Proteins
17. Vitamins
18. Naming Reactions of Organic Compounds.

Rubrics

- Presentation = 03 M
- Content = 03 M
- Neatness = 02 M

BIOLOGY

Make a project file on the following topics-

- 1- AIDS
- 2- Contraceptive methods
- 3- Transcription in prokaryotes Or eularyotes
- 4- Lac operon
- 5- Microsporangium and megasporangium
- 6- DNA structure
- 7- chromosomal Or Mendelian disorders
- 8- Mutation
- 9-Genetic codes
- 10- Biodiversity
- 11- Bioconservation
- 12-Assisted reproductive technologies
- 13- pollination
- 14- Gel electroohoresis
- 15- Mendel's law
- 16- Hardy weinberg principle
- 17- Bioreactors
- 18- Reproductive system
- 19- Spermatogenesis and oogenesis
- 20- Human genome project

Note- Students have to alloted the projects by me...

Rubrics

- Presentation = 03 M
- Content = 03 M
- Neatness = 02 M

ACCOUNTANCY

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

- Comparative and common size financial statements
- Accounting Ratios
- Segment Reports
- Cash Flow Statements

The comprehensive project may contain simple GST calculations.

Project File to record work related to the problem attempted by you in the following format:

1. First page of the file should describe the title of work, identity of student, school, and the teacher concerned.
2. Index to indicate columns for title of work, page no., date, teacher's remarks and signature.
3. The format for Project Work will be:

Statement of the problem Name of the Project

- Objectives
- Period of Study
- Source
- Material
- Tools of Analysis used
- Processing and Tabulation of data
- Diagrammatic/ graphic presentation- pie-diagrammes, bar diagrams and graphs.
- Derivations, Interpretation and Conclusion.
- Assumptions (if any)

Project File should be neatly handwritten and presentable with page numbers. Each step of the solution needs to be highlighted. Conclusions drawn should be placed in boxes at the end. One specific project based on financial statement analysis of a company covering any two aspects from the following:

- Comparative and common size financial statements
- Accounting Ratios
- Segment Reports
- Cash Flow Statements

RUBRICS

- Practical Work : 20M

Practical work will include:

- Practical File : 12M
- Viva Voce : 08M

BUSINESS STUDIES

I. Project: 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 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
37. Ladies bag
38. Ladies footwear
39. Learning Toys
40. Lipstick
41. Microwave oven
42. Mixers
43. Mobile
44. Moisturizer
45. Music player
46. Nail polish
47. Newspaper
48. Noodles
49. Pen
50. Pen drive
51. Pencil
52. Pickles
53. Razor
54. Ready Soups
55. Refrigerator
56. RO system
57. Roasted snacks
58. Salt
59. Sarees
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

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?
 - Selling price to consumer
 - Selling price to retailer
 - 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?
 - To consumer
 - To retailer
 - To wholesaler
16. List 5 ways of promoting your product.
17. Any schemes for
 - The wholesaler
 - The retailer
 - 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.

ECONOMICS

Develop a hand written project report on the topics given below .

Marking Scheme : Marks are suggested to be given as –

Total : 20M

- Relevance of the topic : 03M
- Knowledge Content/Research Work : 06M
- Presentation Technique : 03M
- Viva-Voce : 08M

Suggestive List of Projects (any one topic) :

- Micro and Small Scale Industries in India (Compare Telangana with Maharashtra)
- 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 two states)
- Human Development Index
- Inclusive Growth Strategy
- Self-help group of any two states in India
- 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 and their relation with the primary sector
- Relation between Stock Price Index and Economic Health of Nation

Note: You can also choose the topic from the whole content of both the books or any other topic related to the Economy of the country.

PHYSICAL EDUCATION

1. Prepare a project file on the games

- Basketball
- football
- kabaddi
- kho-kho
- volleyball
- Hockey
- Cricket

Any one game of your choice out of list above labelled diagram of field and equipment.....7 marks

And

2. Record file ... Procedure for asanas ,benefit &contraindication for any two asanas for each lifestyle disease

3. Practical 3.. procedure for administering senior citizen fitness test ./ Physical fitness test (Lab manual).....6 marks

4 .Yogic practices.....7 marks

5 .Record file.5marks

6 .viva voce.....5 marks

COMPUTER SCIENCE

Q1) Write a program to input a welcome message and display it.

Q2) Write a program to calculate compound interest.

$$A=P(1+R/100)^t$$

Q3) Write a program to find the largest and smallest number in the list.

Q4) Write a program to find sum of elements in the list.

Q5) Write a program to print even numbers in the list.

Q6) Write a program to print the positive numbers in the list.

Q7) Write a program to sort elements in ascending order in the list.

Q8) Write a program to print even length words in a string.

Q9) Write a program to print words which are greater than given length K.

Q10) Write a program to print the length of the string.

Q11) Write a program to sort elements in ascending order in the list using bubble sort.

Q12) Write a program to sort elements in descending order in the list using insertion sort.

Q13) Write a program to input three numbers and display the largest/smallest number.

Q14) Create a dictionary with the roll number, name and marks of n students in a class and display the names of students who have marks above 75.

Q15) Write a program to print table of a given number.

Note:-

- 1- Make a project (Program) file with 15 suggested programs on A⁴ size papers ie xerox paper, and get it spiralled, we will add more programmes later with this file.
- 2- Create a border on each paper.
- 3- Programmes will be written on the right side and its output on the left side.
- 4- Write only one program on each page
- 5- Attach front page with the file which I'll send you later..

Rubrics

- 1- Programs -07 Marks
- 2- Lab test -03 Marks

FINE ART

Complete your drawing file ..topics are..

- Madhubani painting
- Landscape (pencil shade)
- Human face (pencil shade)
- Indian monument (pencil shade)
- Bird (pencil shade)
- Composition
- Landscape (water colour)
- Flower (watercolor)
- Still life (colour)
- Madhubani (colour)
- Warli art (colour)

Complete your notes...

Learn Bengal school of painting

RUBRICS

- 40 marks for painting
- 20 marks for notes
- 10 marks for Bengal school of painting

**“YOUR FUTURE IS CREATED BY WHAT YOU DO TODAY,
NOT TOMORROW.”**