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A MINORITY INSTITUTION RUN BY CAPUCHIN EDUCATIONAL SOCIETY, LUCKNOW

PROJECTS/ASSIGNMENTS 2025- 2026 (CLASS X)

CHEMISTRY

TOPICS FOR THE ASSIGNMENT:

Practical work:

1. Complete the practical notebook with Experiments 1 to 11 related to Chapter 4 (Analytical Chemistry)

INSTRUCTIONS FOR ASSIGNMENT:

1. All the experiments to be done in Classmates interleave practical copy.
2. All the equations pertaining to the experiment should be written in the plain side.
3. Each experiment should be written on separate pages.
4. Cover the practical copy with brown black cover followed by cellophane.
5. Assessment sheet, Index in the first two pages before starting the experiments

PHYSICS

TOPICS FOR THE PHYSICS PRACTICAL:

1. Verify law of moment
2. Determine weight of metre scale
3. Determine lateral displacement of emergent ray through glass plate
4. Determine refractive index through glass plate
5. Study of phenomena of refraction through prism
6. Verify formula of prism $i_1 + i_2 = A + \delta$
7. Draw the graph between angle of incidence (i) and angle of deviation (δ).
8. Determine the focal length of convex lens by u-v method
9. Verify ohm's law
10. Verify series and parallel formula for electrical resistances with the help of electric circuit

INSTRUCTIONS FOR PRACTICAL:

1. Use classmate physics practical file.
2. Assessment sheet, Acknowledge and index.
3. Draw the diagrams on left side blank white sheet.
4. Cover practical file with sky blue chart paper.
5. Paste a colorful college logo at middle of cover page.
6. Write your name and Roll no. below college logo
7. Cover the complete file with transparent cellophane.

MATHEMATICS

TOPICS FOR THE PROJECT:

DO ANY TWO

1. GST and Its Calculation

Objective: Understand how Goods and Services Tax (GST) is calculated and applied in real-life transactions.

What to include:

Brief introduction to GST

1) Introduction of GST

3) Salient features of GST

5) Concerns regarding GST

7) State Goods and Service Tax (SGST)

9) Intra State Supply

11) Calculation of GST

2) Evaluation of GST

4) Proposed benefits of GST

6) Structure of GST

8) Inter State Supply

10) Union Territory Goods and Service Tax (UTGST)

- Examples of bills from restaurants, groceries, electronics
- Break down the bill to show CGST and SGST
- Show before-GST and after-GST price comparisons
- Create 3-5 sample invoices and calculate GST manually

Presentation:

- Include real printed or drawn sample bills
- Use charts or tables to display rate comparisons

2. Data Handling Through Survey

Objective: Collect real-life data and use statistical tools to analyze it.

What to include:

- Choose a topic (e.g., daily screen time of students, favorite subjects, sleep schedule)
- Survey 20–30 classmates
- Organize data in a frequency table
- Calculate **mean, median, mode**
- Represent data using **bar graphs, pie charts, histograms**

Presentation:

- Include copies of your questionnaire
- Use colorful graphs and pie charts
- Draw conclusions from the data (e.g., most students sleep <6 hours)

3) HISTORY OF INDIAN MATHEMATICIANS

4) BANKING

1) History of Banking

2) Banking and Banks

3) Function of Banking and Internet Banking

4) Types of Bank accounts

5) Saving Bank Account (opening of saving bank A/c, saving bank passbook, operating)

6) Recurring Deposit account (find equivalent principal for one month, calculation of interest and maturity value with at least 3 examples)

INSTRUCTIONS FOR THE PROJECT

1. Take a Simple Register
2. Cover your project Registers with BLACK CHART PAPER and CELLOPHANE. (No other coloured chart paper is allowed)
3. All writing part should be only on Right side pages of the Register
4. All pictures, drawings and graphs related with different topics you will stick on the left hand side of your Register
5. Your project should be of 35 to 40 pages (not more than 40 and not less than 35 pages it should be within 35 to 40 pages).
6. Page numbering you will start from the page Introduction and you will continue till Conclusion.
7. On the cover page you will write on the top at the centre MATHS PROJECT ,below that at the centre you will write your TOPIC OF THE PROJECT and at the bottom right side you will write your NAME, CLASS SECTION & ROLL NUMBER
8. In first page of your project on the top at the centre you will write heading "Assessment Sheet" after that you will write sub-headings like - your name, class, roll number, internal examiner and external examiner. (in the same sequence)
9. After writing internal examiner and external examiner leave four lines for the signature.
10. Your second page will be of "Acknowledgement"
11. In acknowledgement sheet on the top you will write this heading "Acknowledgement. (In which you will acknowledge all those people who have helped in preparing your project)
12. Third page will be of the Index
13. In your 4th page you will write the name of the topic at the center.
14. From the 5th page you will finally begin your project with the heading "Introduction". (and from introduction page you will start your page numbering)
15. Your second last page will be of conclusion (in which you will conclude your topic and end your page numbering).
16. And the last page in your Maths project file will be of "Bibliography" in which you will write all the sources from where you have taken help for making your project possible. (Mention books you have referred to, writer and names of web sites visited etc).
17. Last date for submission 16th July 2024

COMPUTER

TOPICS FOR THE PROJECT:

In a separate register, write notes on:

1. STRING MANIPULATION including the FUNCTIONS OF THE STRING CLASS AND FUNCTIONS OF CHARACTER CLASS

INSTRUCTIONS FOR PROJECT:

1. Topic page or Front Page & Assessment sheet
2. You should write at minimum 10 – 20 pages
3. Acknowledgement
4. Index or Content Page
5. Introduction
6. Body of the project
7. Conclusion
8. Bibliography

HINDI

TOPICS FOR THE PROJECT:

1. विषय: प्रातः कालीन ध्वनिया. प्रातः काल स्रष्टि को नवजीवन प्रदान करता है, प्रातः कालीन ध्वनियों का उल्लेख करते हुए उसके मनोरम द्रश्य का वर्णन कीजिए.
2. 'बड़े घर की बेटी' कहानी के लेखक का परिचय देते हुए उसकी मुख्य स्त्री पात्र (आनन्दी) का चरित्र-चित्रण करते हुए बताइए कि नारी का चरित्र कैसा होना चाहिए?
3. कुण्डलियाँ के रचनाकार गिरधर कविराय का जीवन परिचय देते हुए बताइए कि उनके द्वारा लिखी गई कुंडलियों का मूल उद्देश्य क्या है और इनके द्वारा कवि ने समाज को क्या संदेश दिया है?
4. किसी भी विषय पर लेख – (कविता, कहानी, प्रस्तावना निबंध)

INSTRUCTIONS FOR PROJECT:

1. Topic page or Front Page & Assessment sheet
2. You should write at minimum 10 – 20 pages
3. Acknowledgement
4. Index or Content Page
5. Introduction
6. Body of the project
7. Conclusion
8. Bibliography

ENGLISH LITERATURE

TOPIC FOR THE PROJECT:

- a) Summary of Act 3
- b) Comparison between the speeches of Antony and Brutus in Act 3
- c) Significance of their speeches on the development of the play

INSTRUCTIONS FOR PROJECT:

1. Topic page or Front Page & Assessment sheet
2. You should write at minimum 15 – 20 pages
3. Hard bound file should be used
4. Use White chart paper covered neatly with cellophane
5. Acknowledgement
6. Index or Content Page
7. Introduction
8. Body of the project
9. Conclusion
10. Bibliography

GEOGRAPHY

PROJECT TOPIC (Choose any one of the following topics to make the project)

1. DEVELOPMENT OF TOURISM IN INDIA
2. WILDLIFE CONSERVATION EFFORTS IN INDIA

INSTRUCTIONS FOR PROJECT:

1. Topic page or Front Page & Assessment sheet
2. Project should not be less than 30 pages
3. Acknowledgement
4. Index or Content Page
5. Introduction
6. Body of the project
7. Conclusion
8. Bibliography

NOTE - YOU HAVE TO DO YOUR PROJECT IN PUNCHED PAPERS IN A FILE.

- Supplement your projects with hand drawn diagrams, coloured photographs, pie charts, bar graphs, hand drawn maps, tables etc.
- They should be within a frame and also the page should have border on all 4 sides
- These should be done in the left side of your punched sheet.
- You have to hand draw maps, graphs, chart diagrams.
- For diagrams only pencils to be used.
- For graphs and maps you have to plot it by hand for graphs and hand draw the maps by tracing don't paste graph papers or maps

For writing only a BLUE and a BLACK pen to be used.

HISTORY

TOPICS FOR THE PROJECT: (Choose any one of the following topics to make the project)

1. The President of India – His Powers and Functions)
2. United Nations: It's organs and agencies (UNICEF, UNESCO and WHO)
3. Life sketch of Mahatma Gandhi – His Contributions in Struggle for Freedom

INSTRUCTIONS FOR PROJECT:

1. Topic page or Front Page & Assessment sheet
2. Project should not be less than 30 pages and more than 35 pages
3. Acknowledgement
4. Index or Content Page
5. Introduction
6. Body of the project
7. Conclusion
8. Bibliography