Ghaziabad Public School

Transforming Education, Empowering Students

SUMMER HOLIDAY HOMEWORK

GRADE: XII-COM

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2ND-C, NEHRU NAGAR, GHAZIABAD, UP, 201001

To be ready for tomorrow's opportunities, do your homework today.
Learn, refine your skills and focus on your growth.

Dear Students,
Summer has arrived and brought with it your amazing and fun-filled holidays. Summer break
is a well-deserved opportunity to relax and unwind by indulging in various activities. Your
Holiday Homework has been specially designed for you to be creative, innovative and
imaginative while completing your tasks. It will also enable you to recapitulate what was
taught in the classrooms. We hope you will play, learn, research, analyze, experiment,
imagine, think, value, appreciate and above all enjoy during your holidays.
Wishing you happy holidays!
Instructions for the students:
* Mention date and day when you do your work.
* Use your creativity and imagination wherever required.
* Submit your holiday homework when the school re-opens.

CLASS: XII-COM. **SUB: ENGLISH CORE-301**

1.Complete the following Worksheet Units of Together with English -
1,3,13,14,18,19,52,53,54,60,61,62,65 and 66.

2.English Project File:

1.INTRODUCTION

The project consists of 10 MARKS out of which, 5 MARKS will be allotted for the PROJECT FILE and the remaining 5 MARKS for the VIVA based on the file.

2. CONTENT OF THE PROJECT FILE:

The project file should include the following:

- **Cover page**, with the title of the project, school details and details of the student
- **Certificate of Completion** under the guidance of the teacher
- **Objectives** of the topic
- **Essay/content** should be written in 800-1000 words.
- **Student reflections** (the new learning experience/outcome achieved after completing the project)
- **Photographs** that capture the positive learning experience of the students (collages/pics from various online sources) can be pasted.
- **List of Resources/Bibliography** (Last page of the project file)

3. INSTRUCTIONS:

- Do a thorough research on the topic assigned.
- The project should be neat, and legible, with an emphasis on quality of content, accuracy of information, creative expression, proper sequencing, and relevance as per the assigned topic.
- Use coloured A4 Size sheets.
- Plagiarism is strictly prohibited.

Select <u>Any One</u> of the given topics for your English Project.

1. **<u>Child Labour in India</u>**
2. **<u>The Last Lesson- 'Linguistic Chauvinism'</u>**
3. **<u>Plight of Old-Aged People</u>**

<u>Project File Format:</u>

- Cover Page
- Acknowledgment
- Certificate of Completion
- Index
- Objectives
- Action Plan
- All the content related to the Topic
- Conclusion
- Students Reflection
- Bibliography

SUB: ECONOMICS-030

1.Reading NEWSpaper on daily basis:

a. Initially the news.
b. Then the related analysis through editorial.
c. Framing your own opinion.
d. Pasting interesting article:- minimum 2 per week and writing your own interpretation.

2..Complete your notebooks properly and learn P.T -1 syllabus.
3.Prepare a project report according to the topic assigned with the name:--
https://docs.google.com/document/d/1BeHea40Z-RRW6BCTcZy_00SPO7cy9AYp/edit?usp=sharing&ouid=115933845023913057228&rtpof=true&sd=true

Synopsis for the project–
Cover Page: Cover page is similar to the bound cover of a book. It should be very attractive and should contain the name of the school, School mono, Session, Subject, Title, Name of the student (Submitted By), Name of the Teacher (Submitted To) and then the reason "in partial fulfillment of the course requirement of Project Work in Economics.

Certificate & Acknowledgment.

- Table of Contents/Index.
- Justification of the title/Objectives of the project/ Summary/Prologue.
- Introduction
- Content: Meaning, Equation, Formulas, Derivations, Features, Pros and cons of the concept, Major criticism related to the topic (if any), Data chart Diagrammatic and Tabular presentation, Newspaper cutting, Graphs, Pictures, photos, Numerical etc.
- Company/ Product Profile (if any)
- Students' own views/perception/ opinion and learning from the work.
- Conclusion/ Suggestions/Epilogue
- Bibliography."

4. Solve the assignment in your IED notebook neatly and carefully:--

https://docs.google.com/document/d/1mDnczh4lP7tnVnra9O_HQOjYA_R7n16ynp--pnDoBAY/edit?usp=sharing

SUB: BUSINESS STUDIES-054

1. Prepare **PROJECT (** specific project according to **CBSE** guidelines) on any one topic
    a. Project 1: Elements of Business Environment.
    b. Project 2Principal of Management.
    c. Project 3: Stock Exchange.
    d. Project 4 : Marketing Management.

For more details and instructions, click on the following link

https://leverageedu.com/blog/business-studies-class-12-project/

2. Write the answer in a notebook.

https://docs.google.com/document/d/1Z94bSVWSVPZcOBTQ55Zt6AuirNRGoewstsGhZh4D5mQ/edit?pli=1

3. Learn all chapters related to **P.T 1** syllabus.

SUB: ACCOUNTANCY-055

1.Prepare any one **PROJECT (**Specific project according to **CBSE** guidelines) on suggested topics.

1. Comparative and common size financial statement.
2. Accounting Ratio
3. Segment ratio
4. Cash flow statement.

For more details and instructions, click on the following link

https://leverageedu.com/blog/accounts-project-class-12/

2.All the questions given below are based on ***CBSE Oriented questions.*** Read carefully and solve in your notebook

https://docs.google.com/document/d/1Y9VGshu_-ytHyQ4l9kcZ5gCew1nwn0funjRppdkiMoA/edit?pli=

3.Complete your notebook work properly andLearn all P.T 1 syllabus.

SUB: PHYSICAL EDUCATION-048

Do in lab manual

•Practical 1: Fitness test (SAl Khelo India Test)

•Practical 2: Procedure for Asanas, Benefits and contraindications for any two asanas for each lifestyle disease.

•Practical 3: Volleyball

i) History

ii) Rules

iii) Skills

iv) Terminologies

v) Labelled diagram of field and equipments

vi) Famous personality

vii) Awards name

•Learn chapter = 1,2 and 3

SUB: MATHS-041

Task 1: Concept Review and Assignment

Revise Chapters 2 to 5(up to NCERT Ex.5.5)using your NCERT textbook and class notes.

Complete the Assignments(CH-2,5) that have been given. You must submit your mathematics note book by july 8,2024.

Task 2: Project Work

Write down year wise percentage of your academic excellence starting from class I to class XI.Find the best fitted line by the method of least squares.

(a) Tabulate the trend values.

(b) Commute expected percentage trend for the year 2025(i.e for class XII)

(c) if you find the calculated expected value for class XII is per your expectations,then write(in approximately 100 words) the strategies you followed.

OR

(c) If you find that the calculated value for class XII is not as per your expectations, then write (in approximately 100 words) the plan of action you will follow.

CHAPTER-2: INVERSE TRIGONOMETRIC FUNCTION

ASSIGNMENT : IMPORTANT QUESTION FOR BOARD EXAMINATION

1).Find the principal values : (i) $\sin^{-1}(1/\sqrt{2})$ (ii) $\tan^{-1}(-1)$ (iii) $\cot^{-1}(-1/\sqrt{3})$

2). Prove that : $\sin^{-1} 3/5 - \sin^{-1} 8/17 = \cos^{-1} 84/85$

3).Solve for x $\sin^{-1}(1-x) - 2\sin^{-1}x = \pi/2$.

4).Write in to Simplest form : (i) $\tan^{-1}\{\sqrt{(1-\cos x)/(1+\cos x)}\}$ (ii) $\tan^{-1}(\cos x - \sin x)/(\cos x + \sin x)$.

5).Prove that $\cos^{-1} 4/5 + \cos^{-1} 12/13 = \cos^{-1} 33/65$.

6).Prove that $\cos^{-1}(12/13) + \sin^{-1}(3/5) = \sin^{-1}(56/65)$.

7).Solve $\cos^{-1}(\sin(\cos^{-1}x)) = \pi/3$

8).Prove that $\tan^{-1} 1 + \tan^{-1} 2 + \tan^{-1} 3 = \pi$

9). Prove that $\sin^{-1} 2a/(1+a^2) - \text{Cos-1}(1-b^2/1+b^2) = 2\tan^{-1}x$

10). Solve for x $\sin^{-1}(1-x) - 2\sin^{-1}x = \pi/2$.

11).Find the value of : $\tan^{-1}(x/y) - \tan^{-1}(x-y)/(x+y)$.

12).Evaluate : $\tan(\sin^{-1} 3/5 + \cot^{-1} 3/2)$.

13).If $\sin(\sin^{-1} 1/5 + \cos x)=1$, then find the value of x.

14). Prove that $\tan^{-1} 1/2 + \tan^{-1} 1/3 = \pi/4$.

15).Write the Simplest form: $\tan^{-1}(\cos x/(1+\sin x)$.

16).Show that $\tan(1/2 \sin^{-1} 3/4) = (4-\sqrt{7})/3$.

17).Prove that $2\tan^{-1} 1/2 + \tan^{-1} 1/7 = \tan^{-1} 31/17$.

18).Prove that $\cot^{-1} 7 + \cot^{-1} 8 + \cot^{-1} 18 = \cot^{-1} 3$.

Ch-5-DERIVATIVE

ASSIGNMENT : IMPORTANT QUESTION FOR BOARD EXAMINATION

1. **$\tan^{-1}(2^{x+1}/1-4^x)$.**
2. **If $x\sqrt{(1+y)} + y\sqrt{(1+x)}=0$ prove that $dy/dx = -1/(x+1)^2$**
3. **If $\cos^{-1}(x^2-y^2)/(x^2+y^2) = \tan^{-1}a$,prove that $dy/dx=y/x$**
4. **If $\sqrt{(1-x^6)}+\sqrt{(1-y^6)} = a(x^3-y^3)$,prove that $dy/dx = x^2/y^2\ \sqrt{\{(1-y^6)/(1-x^6)\}}$.**
5. **If $x^2+y^2=t-1/t$ and $x^4+y^4 = t^2+1/t^2$,then prove that $dy/dx = 1/x^3.y$.**
6. **If $x^y = e^{x-y}$,prove that $dy/dx = \log x/(1+\log x)^2$**
7. **If $y=\sin^{-1}(3\sin x+4\cos x)/5$**
8. **If $\sin^{-1}(x^2-y^2)/(x^2/+y^2)=c$, prove that $dy/dx=y/x$**

9. If $x+y=0,x$,then prove that $dy/dx= -1/(1+x)^2$
10. If $\sqrt{(1-x^2)} + \sqrt{(1-y^2)} = a(x-y)$, prove that $dy/dx=a(x-y)$,prove that $dy/dx=\sqrt{\{(1-y^2)/1-x^2\}}$
11. If $x \sin(a+y)+ \sin a \cos(a+y)=0$,prove that $dy/dx= \sin^2(a+y)/\sin a$
12. If $\sqrt{(1-x^6)}+ \sqrt{(1-y^6)}=a(x^3-y^3)$,prove that $dy/dx= x^2/y^2(\sqrt{(1-y^6)}/(1-x^6))$.
13. If $\tan^{-1}(y/x)=\log(\sqrt{x^2+y^2})$, prove that $dy/dx= (x+y)/(x-y)$.
14. If $e^x+e^y=e^{x+y}$,prove that $dy/dx= -e^{y-x}$.
15. If $x^y= e^{x-y}$,prove that $dy/dx=\log x/(1+\log x)^2$
16. If $x^p y^q=(x+y)^{p+q}$,prove that $dy/dx= y/x$
17. If $(\sin x)^x + (\cos x)^{\tan x}$, find dy/dx.
18. If $x^y= e^{x-y}$,prove that $dy/dx= \log x/(\log xe)^2$.
19. If $y^x=e^{y-x}$,prove that $dy/dx= (1+\log y)^2/\log y$.
20. If $x^y=y^x$,prove that $dy/dx= y(x\log y-y)/x(y\log x-x)$.
21. If$(x-y)\, e^{(x/(x-y))}=a$, prove that $y\, dy/dx+x=2y$.
22. If $x=a \sin 2t(1+\cos 2t)$ and $y=b\cos 2t(1-\cos 2t)$, show that $(dy/dx)_{t=\pi/4}=b/a$.
23. If $x=e^{\cos 2t}$ and $y=e^{\sin 2t}$,prove that $dy/dx= -y\log x/x\log y$.
24. If $x=\sqrt{(a^{\sin^{-1}t})}$and $y=\sqrt{(a^{\cos^{-1}t})}$, show that $dy/dx= -y/x$.
25. If $x=3\sin t-\sin 3t, y=3\cos t-\cos 3t$,find dy/dx at $t= \pi/3$.

SUB: HINDI CORE-302

ग्रीष्म अवकाश गृह कार्य

प्रश्न 1 आपकी पाठ्यपुस्तक में सम्मिलित किसी एक कवि/ कवयित्री के व्यक्तित्व एवं कृतित्व पर प्रकाश डालते हुए सचित्र एक प्रोजेक्ट फाइल तैयार कीजिए ।

प्रश्न 2 निम्नलिखित अप्रत्याशित विषयों पर 150 शब्दों में लेख लिखिए

(क) दान मनुष्य को श्रेष्ठ बनाता है।

(ख) मीडिया हमें भ्रमित करती है।

प्रश्न 3 हिन्दी भाषा के सम्मान पर आधारित किन्हीं दो कविताओं का सचित्र वर्णन कीजिए।

प्रश्न 4 पाठ्य पुस्तक में कराया गया संपूर्ण कक्षा कार्य याद करें।

निर्देश- सभी प्रश्नों के उत्तर रंगीन A4 शीट पर लिखकर एक फाइल तैयार कीजिए।

SUB: PAINTING-049

- Visit the National Museum and National Gallery of Modern Art (NGMA) and collect data from the artifacts and paintings of your course of study.
- Do sketch any one artifact from these museums and do it on your practice art file.
- Complete your portfolio: 4 still life drawings and 4 landscape/composition drawings on A2 size pages.