

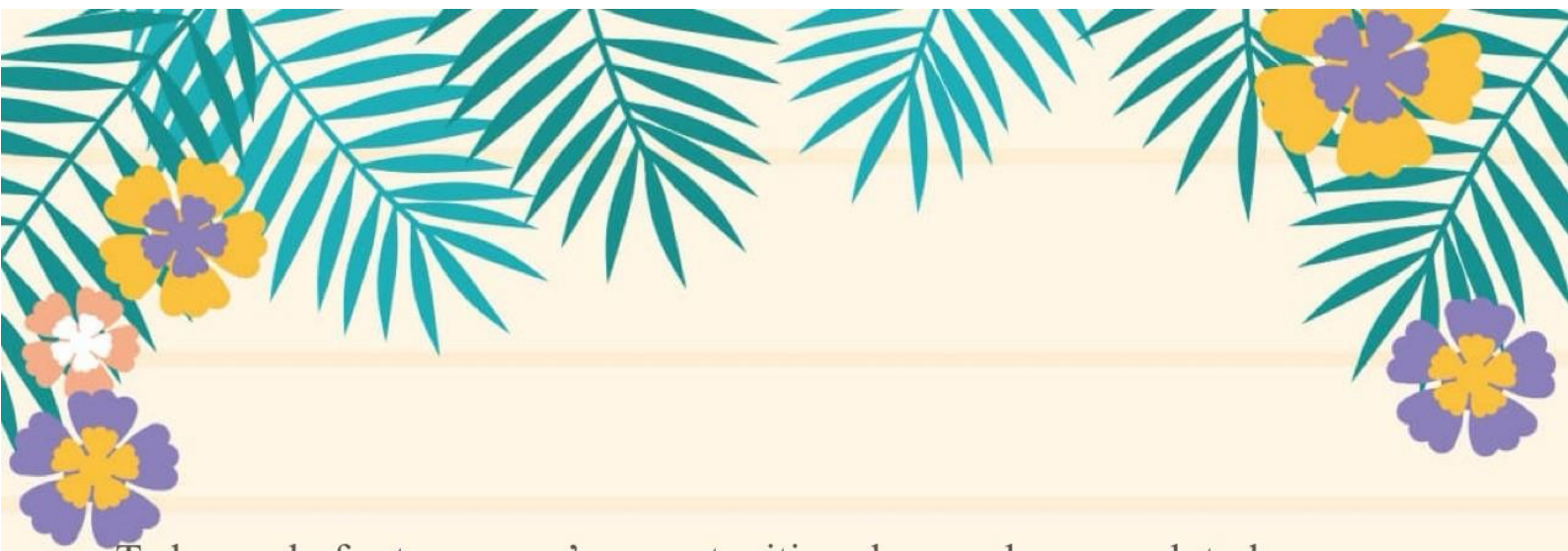
**Ghaziabad  
Public School**



Transforming Education, Empowering Students

# SUMMER HOLIDAY HOMEWORK

**GRADE: XI-COM**



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.



**1.TOPIC- LET'S EXPLORE!!!!**

Read the Newspaper daily and write only one news article under the given headings like National, International, Sports, Glamour, Business, Editorials, Classifieds, Health and express your views on it and compile it in a file .

2. Read the autobiography of any famous personality of your choice and write a book review .

Note- Do the given tasks in A4 Size sheets only.

3.Complete the following Worksheet Units of Together with English- 1,2,19,20,21,32,33,62,63,64 and 72

- 1. Complete your notebooks properly and learn P.T -1 syllabus.**
- 2. Preparation of project report through collection of data by designing a questionnaire.**
- 3. Prepare a project report by conducting a survey and collect data by designing a questionnaire on *any one* of the following topics-**
  - Effect on PPC due to various government policies
  - Opportunity cost as an economic tool (taking real life situations)
  - Effect of price change on a substitute good/ complementary goods.
  - Effect on equilibrium price in local market.
  - Effect of price change on a complementary good.
  - Demand and factors of demand.
  - Supply and factors of supply.
  - Minimum support price.
  - Law of diminishing marginal utility.

**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."

### **3–Reading NEWSpaper on daily basis:**

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

**SUB: BUSINESS STUDIES-054**

### **Holiday homework:**

**Q.1 Compare business with profession and employment.**

**Q .2 Comparative evaluation of form of Business Organisation.**

**Q.3 According to the partnership act 1932, it is not compulsory a partnership firm to get itself register,But why do partner register partnership firm .**

**Q.4 Read one businessman's story and write about his journey on achievement.(Use A4 sheet)**

**Q.5 Make project file on any one of the following.**

**1.Visit of industry**

**2 Multinational company**

**3 Insurance**

**4 Transport**

**5.Advertisement**

### **Points to Remember:**

- 1. Project file with minimum page 15- 20 including ( front page, Acknowledgement, Certificate, Index)**
- 2. Try to write all content**
- 3. Work should be creative.**

**Q.6 make any model relate to Business Activity.**

**Q.1 Write a short note on types of assets with one example of each.**

**Q.2 Capital is liability for the business.Explain this statement.**

**Q .3 Only financial transactions are recorded in Account .Explain the statement.**

**Q.4 If the capital of a business ₹3,00,000 liabilities are ₹50,000 loss ₹70,000 calculate the total asset of the business.**

**Q.5 If the capital ₹1,00,000 outside liabilities ₹2,50,000 find the total assets.**

**Q.6 You start a business ,frame a situation using the concept and terms of accounting with the imaginary figures.Identify the term used and explain terms.**

**Q.7 What is Accounting? Write the characteristics ,objective ,functions of Accounting.**

**Q.8 Make any model relate to accounting terms.**

<https://youtu.be/vyMr3f2k2Yc?si=uYDJmlTzq9DO9-Uj>

**Do in lab manual**

- Practical 1: Fitness test (SAI Khelo India Test)
- Practical 2: Procedure for Asanas, Benefits and contraindications for any two asanas for each lifestyle disease.
- Practical 3: Basketball / Volleyball (Do any 1)
  - 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

**Task 1: Concept Review and Assignment**

Revise chapter 1 on Sets and Chapter-3 on Trigonometry function from your NCERT text book. Complete the assigned Assignment in Mathematics Note book.

**Task 2: Mathematical Exploration at Jantar Mantar**

Visit Jantar Physically or Virtually using Google Earth and explore the mathematical instrument available there. Gather information about the mathematical principles used in constructing Jantar Mantar. Compile this information on a light green pastel sheet along with pictures and write-ups.

Answer the following questions (based on mathematics and mathematical Principal's used)

1. What is the significance of the name ' Jantar Mantar'
2. Evaluate the accuracy of the Samrat Yantra Sundial.
3. Identify and briefly describe the astronomical instruments at Jantar Mantar.
4. Explain the importance of the Ram Yantra.
5. Discuss the purpose of the Chakra Yantra.

**CHAPTER-3 : TRIGONOMETRIC FUNCTIONS****ASSIGNMENT: IMPORTANT QUESTION FOR EXAMINATION**

- 1). Find the value of Trigonometric function: (i)  $\sin 765^\circ$ . (ii)  $\tan 19\pi/3$ .
- 2). Prove that  $\cot^2 \pi/6 + \operatorname{cosec} 5\pi/6 + 3 \tan^2 \pi/6 = 6$ .
- 3). Prove that  $\sin (n+1)x \sin (n+2)x + \cos (n+1)x \cos(n+2)x = \cos x$ .
- 4). Prove that  $\sin^2 6x - \sin^2 4x = \sin 2x \sin 10x$ .
- 5). Prove that  $\sin 2x + 2 \sin 4x + \sin 6x = 4 \cos^2 x \sin 4x$ .
- 6). Prove that  $\cos 6x = 32 \cos^6 x - 48 \cos^4 x + 18 \cos^2 x - 1$
- 7). Find the general solution (i)  $\sin x + \sin 3x + \sin 5x = 0$  (ii)  $\sec^2 x = 1 - \tan 2x$
- 8). Find the value of  $\tan \pi/8$ .
- 9). If  $\tan x = 3/4$ ,  $\pi < x < 3\pi/2$ , find the value of  $\sin x/2$ ,  $\cos x/2$ , and  $\tan x/2$ .
- 10). Prove that  $(\cos x - \cos y)^2 + (\sin x - \sin y)^2 = 4 \sin^2 (x-y)/2$
- 11). Prove that  $\sin 3x + \sin 2x - \sin x = 4 \sin x \cos x/2 \cos 3x/2$ .
- 12). ). Prove that  $(\cos x + \cos y)^2 + (\sin x - \sin y)^2 = 4 \cos^2 (x+y)/2$ .
- 13). Prove that  $\cos 4x = 1 - 8 \sin^2 x \cos^2 x$ .
- 14). Find the value of  $\sin 75^\circ$



15). Show that  $\tan 3x \tan 2x \tan x = \tan 3x - \tan 2x - \tan x$ .

16). A wheel makes 360 revolutions in one minute. Through how many radians does it turn in one second?

17). The minute hand of a watch is 1.5 cm long. How far does its tip move in 40 minutes?

18). If the arcs of the same lengths in two circles subtend angle 65° and 110° at the centre, find the ratio of their radii.

19). Convert in to radian: (i)  $25^\circ$  (ii)  $240^\circ$  (iii)  $-47^\circ 30'$

20). Convert in to degree : (i)  $5\pi/3$  (ii)  $7\pi/6$  (iii)  $-4$

### PRACTICE WORKSHEET (CH-1 SETS)

#### IMPORTANT QUESTION FOR EXAMINATION:-

1). In a survey of 600 students in a school, 150 students were found to be taking tea and 225 taking coffee, 100 were taking both tea and coffee. Find how many students were taking neither tea nor coffee?

2). In a group of students, 100 students know Hindi, 50 know English, 25 know both. Each of the students knows either Hindi or English. How many students are there in the group?

3). In a committee, 50 people speak French, 20 speak Spanish and 10 speak both Spanish and French. How many speak at least one of these two languages?

4). In a survey it was found that 21 people liked product A, 26 liked product B and 29 liked product C. If 14 people liked product A and B, 12 people liked products C and A, 14 people liked products B and C and 8 liked all the three products. Find how many liked product C only.

5). Show that A need not imply B=C

6). Show that if  $A \subset B$ , then  $C - B \subset C - A$

7). Two finite sets have m and n elements. The total number of subsets of the first set is 56 more than the total number of subsets of the second set. Find the value of m and n.

8). Write down set builder form-  $\{2, 4, 8, 16, 32\}$

9). In a survey of 25 students, it was found that 15 had taken mathematics, 12 had taken physics and 11 had taken Chemistry, 5 had taken mathematics and chemistry, 9 had taken mathematics and physics, 4 had taken physics and Chemistry and 3 had taken all the three subjects. Find the number of students that had (i) only Physics (ii) Only Chemistry (iii) Only Mathematics (iv) Phy and che but not Mathematics. (v) Maths and Physics but not chemistry. (vi) Only one of the subjects (vii) at least one of the three subjects (viii) none of the subjects.

10). In a class of 35 students, 17 have taken mathematics but not Economics. Find the number of students who have taken both mathematics and Economics and the number of students who have taken Economics but not Mathematics, if it is given that each student has taken either Mathematics or Economics.

## ग्रीष्म अवकाश गृह कार्य

प्रश्न 1 निम्नलिखित विषयों पर पत्र लिखिए।

(क) समुचित सफाई व्यवस्था न होने के कारण अपने क्षेत्र में फैली गंदगी की शिकायत करते हुए दिल्ली नगर निगम के स्वास्थ्य अधिकारी को पत्र लिखिए।

(ख) किसी समाचार-पत्र के संपादक को पत्र लिखिए जिसमें दिल्ली में बढ़ती हुई अपराधवृत्ति की ओर अधिकारियों का ध्यान आकृष्ट कराया गया है।

प्रश्न 2 निम्नलिखित अप्रत्याशित विषयों पर 150 शब्दों में लेख लिखिए

(क) बाजार एक जादू है

(ख) जल है तो जीवन है

प्रश्न 3 भक्ति कालीन कवियों की पाँच 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।

- 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.