



## General English

### SUBJECTIVE:

1. Read Poem “The Tale of the Melon City” and analyse the literary devices used in the poem.
2. Read the play “Mother’s Day”. After reading the play, frame your own questions and find the answers with the help of the text.
3. Every night introspect your whole day’s activities and mark a dairy entry about 1 good thing that you did for others.

### CREATIVE CORNER:

1. In order to develop writing skills and have practical knowledge of posting letters, Write a letter to your friend telling her about your summer vacation plan and post that letter. After receiving that letter paste it in your notebook. Experience the eagerness of waiting for your reply and joy of receiving letter by post.
2. Watch a documentary on the life history of a great leader ‘APJ Abdul Kalam’. We will enact role play in the upcoming event of our class.

### ASTHETIC CORNER:

3. Get up early in the morning and feel the magic of surroundings. Experience the first ray of sun and coolness of breeze, the chirping of birds and DO MEDITATION for at least 30 minutes every day.
4. Mothers don’t have holidays, not even on Sundays. On holidays their work gets doubled, in order to show some respect towards her dedication Help your mother in household chores and also learn to cook her signature dish.
5. Family is the first school of every child and parents can give you the best advice which Google can’t. Value your relations because you are blessed with them. Switch off your mobile after 7 pm everyday and spend quality time with your family. Discuss and share your feelings and thoughts with your parents.



### **Accountancy:**

- 1 Prepare PPT on the following topics allotted as per your Roll No.-1-5 Basic Accounting Terms 5-10 Accounting Process 11-15 Accounting Principles and Concepts 16-21 Double entry system and Concept and usage of Accounting for a Business.
- 2 Revise all chapters covered in class

#### **Chapter:**

- 1 Meaning and objectives of Accounting.
  - 2 Basic Accounting terms.
  - 3 Accounting principles.
  - 4 Process and bases of Accounting.
  - 5 Accounting Equations.
  - 6 Double Entry Systems.
  - 7 Source documents of Accountancy.
  - 8 Journals.
- 3 Imagine any business unit, chose its name, prepare two sample vouchers, debit note, credit note, cash-memo, invoice and paste in your notes register. Take help of text book for the format.





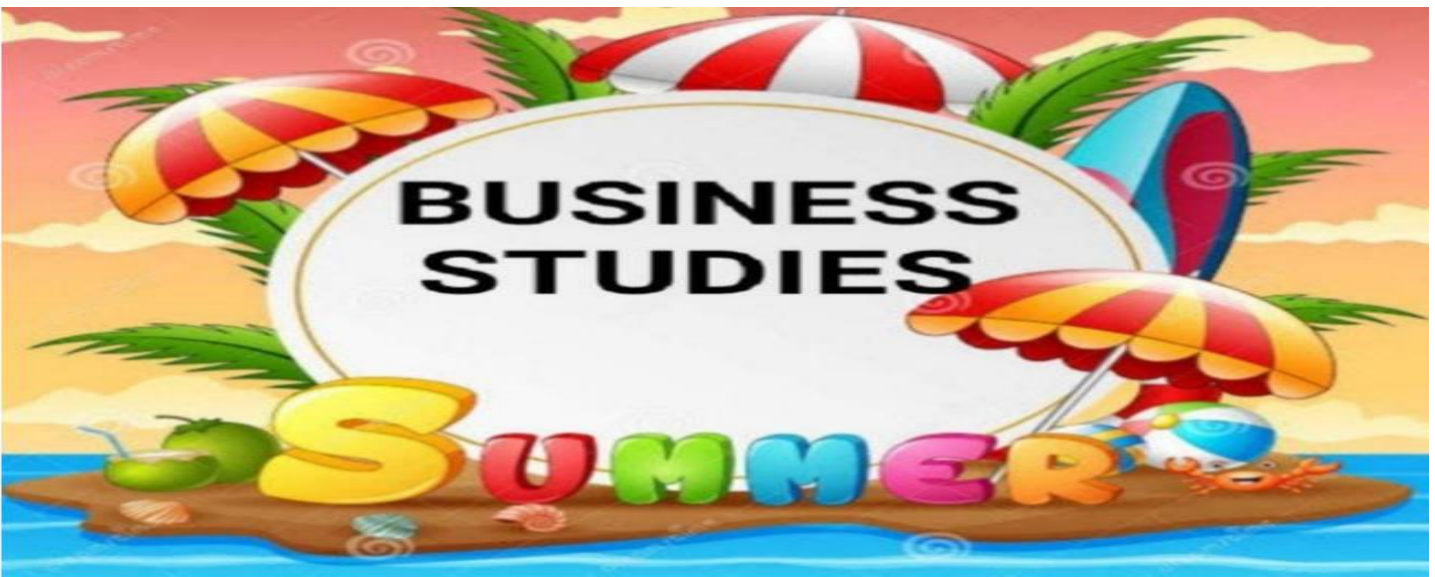
## ECONOMICS

### **PREPARE PROJECT ON THE FOLLOWING TOPICS:**

GROUP 1- Project Report on Consumer Awareness among Households using Data.

GROUP 2- Project Report on Demographic Structure of a Neighbourhood.

GROUP 3-Project on Changing Prices of a Few Vegetables in a Market Using Primary Data.



## BUSINESS STUDIES

### **GROUP 1**

**PROJECT : CONSUMER CO-OPERATIVE**

Select a consumer co-operative society like Amul and study it as a business model.

Also include the objectives and the organizational structure, details of surplus distribution.

## **GROUP 2**

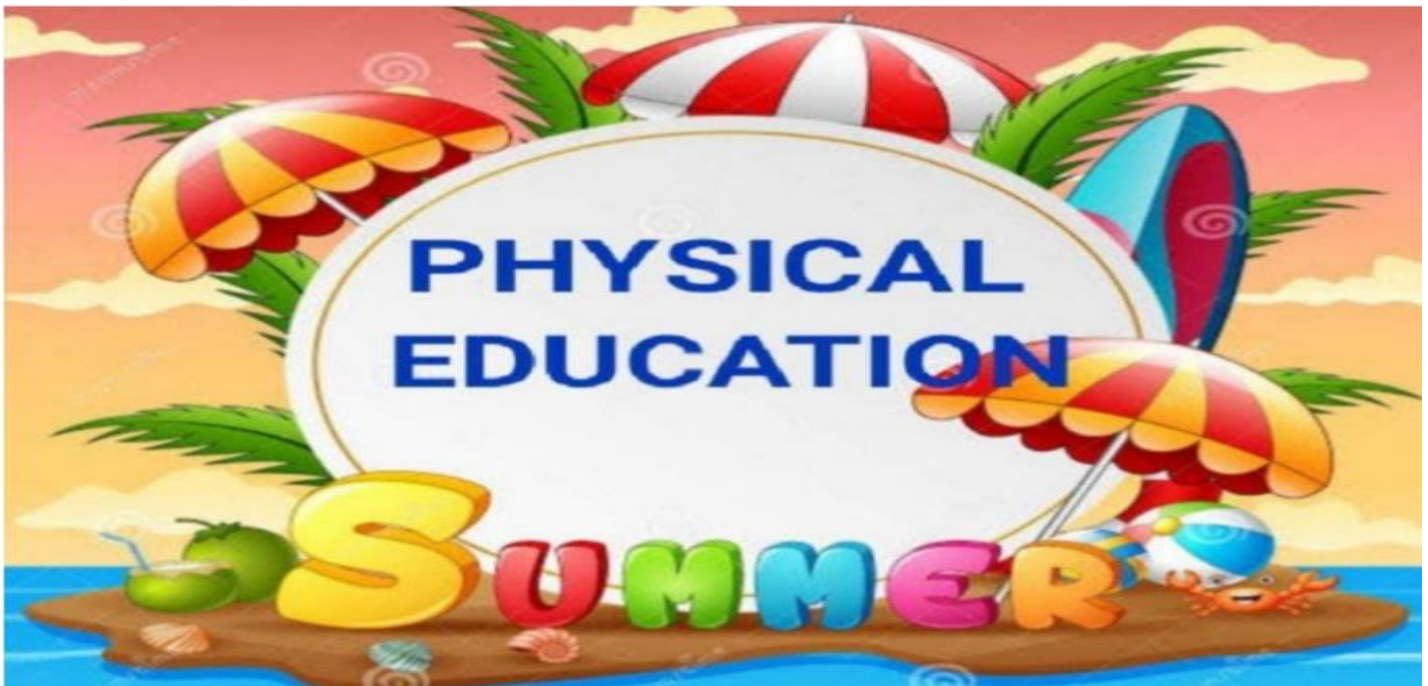
### **PROJECT : CLASSIFICATION OF INDUSTRY**

Select a daily use, consumer product. Trace its origin from the primary industry through the secondary and tertiary Industries. Draw a flow chart to include the business activities in its pathetic from the producer to the consumer.

## **GROUP 3**

### **PROJECT: PUBLIC PRIVATE PARTNERSHIP PROJECT**

Select any public private partnership unit. Trace its Origin, objectives, impact and do SWOT analysis .



### **Physical education**

1. Revise the chapter 1 to 3rd.
2. Make note book of different asanas and write their benefits (project for internal marks).
3. Do yoga and exercise daily at home atleast 30 min. Daily to stay fit and healthy.



## SOCIOLOGY

1. PROJECT WORK: YOUTH & SOCIAL MEDIA

OR

THE SOCIOLOGY OF YOUTH CULTURE TODAY

2. CASE STUDY

Take up any one TASK to bring a CHANGE IN YOUR SOCIETY as a Vigilant Citizen

For Example -

1. Create Awareness about HAZARDS of Use of Polythene.
2. Create awareness about PROPER WAY of discarding Kitchen waste.
3. Proper Bill by the PHARMACY , PERTOL PUMPS, GROCERY STORES etc.
4. Proper disposal of plastic and polythenes waste.

These just few examples.

Choose any TASK of your choice to conscientise people in your society, and write down in detail, Your EXPERIENCE & what DIFFERENCE were able to create.

SHOW YOUR WORK THROUGH-

- Make A FILE
- Paste PICTURES
- Make PPT
- MAKE VIDEOS
- DO RECORDINGS
- WRITE UPS
- ANY SUCH THING TO JUSTIFY THE TASK DONE.





## Psychology

### **Project Work (30Marks)**

Conduct a study in which you see the effect of recitation on learning of poetry take the six or seven years old children and divide them into two groups

- 1.Group A:** Give Group A new poem to learn and instruct them to read it loudly for 15 minutes.
- 2.Group B:** Give Group B the same poem to learn but instruct them not to read it loudly for 15 minutes.

After 15 minutes ask two groups to recall. Take care to see that both the groups are dealt with separately. After the recall has taken place, note down the observation.

Now identify

- 1.What method of research you used?
2. The hypothesis ,the variables and kind of experimental design that were there .

**Note:** Make a proper file of research work with photographs and details of your research and submit it after summer vacations for the practical evaluation of Term one.



## POLITICAL SCIENCE

### 1. Project Work (File)

G20 - (Case Study)

### 2. PM & his Cabinet (Research Work).

Detailed Study of Cabinet with their respective Portfolios.

→ Pen Picture of each Cabinet Minister / their Picture, their life etc

### 3. Study thoroughly Lesson 'Equality'

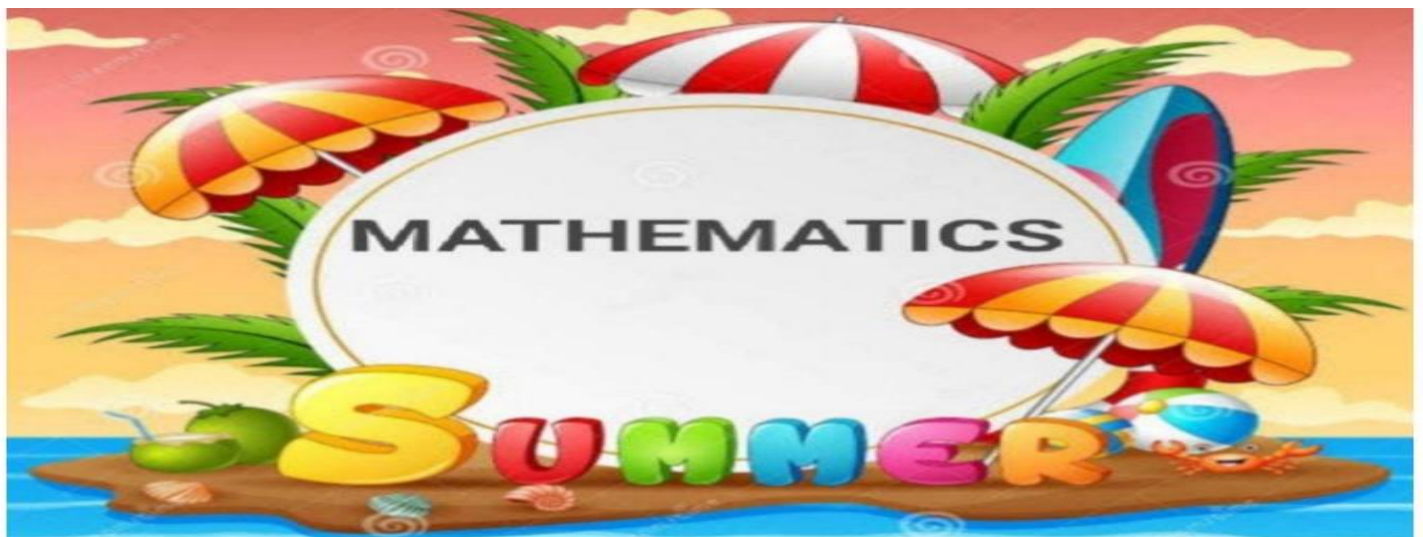
Practice all textual Questions. → Do Extra Questions from (Pol. Sc.

G.N. Rastogi Avnindia Verma) in Homework notebook (All short & Long Answer type questions)

## PAINTING

A traditional mural art craft of Kutch, Gujrat , India. Lippan art

Pot painting traditional folklore design flower pot painting.



## Mathematics

### Chapter -1 (set Theory)

1. Which of the following are sets? Justify your answer.

The collection of all the months of a year beginning with letter M.

2. Write the set  $B = \{3, 9, 27, 81\}$  in set-builder form.

3. Write down all the subsets of the set  $\{1, 2, 3\}$ .

4. Are the following pair of sets equal? Give reasons

A, the set of letters in "ALLOY" and B, the set of letters in "LOYAL".

5. Given,  $X = \{a, b, c, d\}$  and  $Y = \{f, b, d, g\}$ , determine the final value of  $X - Y$  and  $Y - X$ .

6. Given sets are  $A = \{a, b\}$ , and  $B = \{a, b, c\}$ . Is  $A \subset B$ ? Find  $A \cup B$ .

7. If  $U = \{x : x \in \mathbb{N}, x \leq 9\}$ ,  $A = \{x : x \text{ is an even number}, 0 < x < 10\}$ , and  $B = \{2, 3, 5, 7\}$ , what will be the Set  $(A \cup B)$ ?

8. If  $A = \{3, 5, 7, 9, 10\}$ ,  $B = \{7, 9, 10, 13\}$ , and  $C = \{10, 13, 15\}$ . Find  $(A \cap B) \cap (B \cup C)$ .

9. Represent the given sets in the Roster Form.

(i)  $A = \{x \mid x \text{ is a positive integer which is less than 10 and } 2x - 1 \text{ is an odd number}\}$

(ii)  $B = \{x : x^2 + 7x - 8 = 0, x \in \mathbb{R}\}$

### Chapter -2 (Relation and Functions)

1. Express the function  $f: A \rightarrow \mathbb{R}$ .  $f(x) = x^2 - 1$ . where  $A = \{-4, 0, 1, 4\}$  as a set of ordered pairs.

2. Assume that  $A = \{1, 2, 3, \dots, 14\}$ . Define a relation R from A to A by  $R = \{(x, y) : 3x - y = 0, \text{ such that } x, y \in A\}$ . Determine and write down its range, domain, and codomain.

3. Let  $f(x) = x^2$  and  $g(x) = 2x + 1$  be two real functions. Find

$(f + g)(x)$ ,  $(f - g)(x)$ ,  $(fg)(x)$ ,  $(f/g)(x)$

4. Redefine the function:  $f(x) = |x - 1| - |x + 6|$ . Write its domain also.

5. Find the domain and range of the real function  $f(x) = x/(1+x^2)$ .

6. Let  $A = \{1, 2, 3\}$ ,  $B = \{4\}$  and  $C = \{5\}$

• (i) Verify that:  $A \times (B - C) = (A \times B) - (A \times C)$

• (ii) Find  $(A \times B) \cap (A \times C)$ .

Find x and y if: (i)  $(4x + 3, y) = (3x + 5, -2)$  (ii)  $(x - y, x + y) = (6, 10)$

7. Find the domain for which the functions  $f(x) = 2x^2 - 1$  and  $g(x) = 1 - 3x$  and check whether they are equal.

8. Find the domain and range of the real function  $f(x) = 1/(1 - x^2)$ .

9. A relation R is defined from a set  $A = \{2, 3, 4, 7\}$  to a set  $B = \{3, 6, 9, 0\}$  as follows  $R = \{(x, y) \in R : x \text{ is relatively prime to } y; x \in A, y \in B\}$ . Express R as a set of ordered pairs and determine the domain and range.



10. Draw the graph of the function  $f: \mathbb{R} \rightarrow \mathbb{R}$  defined by  $f(x) = x^3$ ,  $x \in \mathbb{R}$
11. If  $R_3 = \{(x, x) \mid x \text{ is a real number}\}$  is a relation, then find the domain and range of  $R_3$ .
12. Redefine the function  $f(x) = |x - 2| + |2 + x|$ ,  $-3 \leq x \leq 3$ .
13. In each of the following cases, find  $a$  and  $b$ .
- (i)  $(2a + b, a - b) = (8, 3)$
- (ii)  $\{a/4, a - 2b\} = (0, 6 + b)$
14. If  $R_1 = \{(x, y) \mid y = 2x + 7, \text{ where } x \in \mathbb{R} \text{ and } -5 \leq x \leq 5\}$  is a relation. Then find the domain and range of  $R_1$ .
15. Let  $f$  and  $g$  be real functions defined by  $f(x) = 2x + 1$  and  $g(x) = 4x - 7$ .
- (i) For what real numbers  $x$ ,  $f(x) = g(x)$ ?
- (ii) For what real numbers  $x$ ,  $f(x) < g(x)$ ?
16. The ordered pair  $(5, 2)$  belongs to the relation  $R = \{(x, y): y = x - 5, x, y \in \mathbb{Z}\}$

### CHAPTER 3 TRIGONOMETRIC FUNCTIONS

1. If  $\theta$  lies in the first quadrant and  $\cos \theta = 8/17$ , then find the value of  $\cos(30^\circ + \theta) + \cos(45^\circ - \theta) + \cos(120^\circ - \theta)$ .
2. Prove that:
3. Prove that  $\cot 4x (\sin 5x + \sin 3x) = \cot x (\sin 5x - \sin 3x)$ .
4. In triangle  $ABC$ , prove that:
5. In any triangle,  $ABC$ , show that:
6. Find the value of  $\tan 225^\circ \cot 405^\circ + \tan 765^\circ \cot 675^\circ$ .
7. If  $a \cos 2\theta + b \sin 2\theta = c$  has  $\alpha$  and  $\beta$  as its roots, then prove that  $\tan \alpha + \tan \beta = 2b/(a + c)$ .
8. Find the most general value of  $\theta$  satisfying the equation  $\tan \theta = -1$  and  $\cos \theta = 1/\sqrt{2}$ .

#### Activity-1

To find the number of subsets of a given set and verify that if a set has  $n$  number of elements, then the total number of subsets is  $2^n$ .

#### Activity -2

To verify that for two sets  $A$  and  $B$ ,  $n(A \times B) = p \cdot q$  and the total number of relations from  $A$  to  $B$  is  $2^{pq}$ , where  $n(A) = p$  and  $n(B) = q$ .