

# DELHI PUBLIC SCHOOL, JAMMU

SESSION: 2021-22

## HOLIDAY'S HOMEWORK

CLASS: XI

SUBJECT: MATHEMATICS

*Mathematics may not teach us how to add love or minus hate but it gives us every reason to hope that every problem has a solution.*

➤ **Complete your Activity on any one the following topics:-**

List of projects:

**Activity-1**

**Objective:** To find the number of subset 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**

**Objective:** To interpret geometrically the meaning of iota ( $i$ ) =  $\sqrt{-1}$  and its integral powers.

**Activity-3**

**Objective:** To obtain a quadratic function with the help of linear functions graphically.

**General layout of the Activity has the following format:**

PAGE NUMBER	CONTENT
Cover Page	Name, Class, Roll Number, Title of the project
1	Objective
2	Pre-activity knowledge and brief description of the activity
3 to 5 (may change)	Procedure (with pictures/diagrams )
6	Mathematical ideas used/involved
7	Observations
8	List of resources
9	Result

➤ Prepare a power point presentation on the topic sets. This presentation should describe sets in detail including all the relevant definitions with examples various concepts and the practical problems.

NOTE:

1. Send your Holiday Homework by e-mail to your respective subject teacher by 13<sup>th</sup> of July, 2021. Your submission will carry 4 marks (2 marks-subject Relevance and research, 2 marks- Handwriting).
2. Practice for your Homework/Project presentation (5-6 minutes) to be held during virtual class after holidays. It will carry 6 marks ( 2 marks- confidence, 2 marks- Subject Clarity, 2 marks-Presentation skills).
3. The schedule for presentation will be shared later. The Teacher may ask 1 or 2 questions during the presentation.

Class

XI A

XIB, XIE

XID

Subject Teacher

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