

**GURU AMAR DASS PUBLIC SCHOOL, GOINDWAL ROAD, KAPURTHALA**  
**SUMMER HOLIDAYS HOMEWORK (SESSION 2019-20)**  
**GRADE – X**

*Summer Holidays are a great time to learn new things. It is a time to have fun, create and invent.*

**General Instructions:-**

- Parents to ensure that the child does the work on his/ her own.
- Do all the Holidays Homework in a separate notebook.
- Encourage your child to converse in English.
- Eat healthy food & drink plenty of water.
- Father's day falls on 16<sup>th</sup> June. Make a card for your father and give it to him on Father's Day. Write few lines for him.
- School will remain closed from 9<sup>th</sup> June 2019 to 9<sup>th</sup> July 2019 due to Summer vacations and reopens on 10<sup>th</sup> July, 2019 at Schedule time i.e 7:40 a.m. to 2:05 p.m.
- Wish you a happy healthy summer vacations.

**English**

- Write a short biography on Dr. A.P.J Abdul Kalam.
- Solve all the assignments / Exercises given below from Evergreen Practice Paper.

Section	Topic	No. of Exercises/ Assignments
Reading	Comprehension	4
Writing	Letter	4
	Short Story	4
Grammar	Gap filling	4
	Editing	4
	Sentence Reordering	4
	Reported Speech	4
Literature	<u>Book - First Flight</u> Chapter 1- Letter to God Chapter 2 - Nelson Mandela : Long Walk to Freedom Chapter 3 - Two stories about Flying <u>Book - Footprints without feet</u> Chapter 1 - A Triumph of Surgery Chapter 2 - The Thief's Story Chapter 3 - The Midnight Visitor	Solve Short answer question (30 - 40) words.

- Collect any five news items on the given issues. Paste them in a scrapbook and comment on any two in 120 - 150 words. Topics are -  
 A) Environmental Issues B) Women Centric Issues C) Technological Development D) Sports
- Read newspaper daily and pick out 5 words of English from (Newspaper, Story books and magazines) arrange these words in alphabetical order and then write the meanings and make sentences.
- Write hand writing 5 pages in your notebook (In English and Punjabi).

**Maths**

- Make a creative booklet which includes Tables (1-20), formulas of all chapters, divisibility rules (1 to 30), identities with examples, squares and cubes of numbers (1 to 30), tricks and riddles (any three).
  - Write the definitions of all set of numbers with examples.
  - Do any 10 sums of each addition and subtraction of L.C.M. with different denominators
  - Revise the chapters 1,2,3,4,5,7,10,14,15
  - Do any 10-10 sums of DMAS and BODMAS rule.
- Assignment:-**
- Using Euclid's division algorithm, find the largest number that divides 1251, 9377 and 15628 leaving remainders 1,2 and 3 respectively.
  - Prove that  $\sqrt{6} + \sqrt{7}$  is an irrational number.
  - Prove that  $\sqrt{7}$  is an irrational number.
  - If  $\alpha$  and  $\beta$  are zeroes of the polynomial  $2x^2 + 11x + 5$ , then find the value of  $\frac{1}{\alpha} + \frac{1}{\beta} - 2\alpha\beta$
  - Find all the zeroes of the polynomial  $x^4 - 3x^3 - 5x^2 + 21x - 14$ , if two of its zeroes are  $\sqrt{7}$  and  $-\sqrt{7}$ .
  - If the polynomial  $6x^4 + 8x^3 + 17x^2 + 21x + 7$  is divided by another polynomial  $3x^2 + 4x + 1$ , the remainder comes out to be  $ax + b$ , find the values of  $a$  and  $b$ .
  - The age of the father is twice the sum of ages of his two children. After 20 years, his age will be equal to the sum of the ages of his children. Find the age of the father.
  - Solve :-  $\frac{1}{3x+y} + \frac{1}{3x-y} = \frac{3}{4}$  and  $\frac{1}{2(3x+y)} - \frac{1}{2(3x-y)} = -\frac{1}{8}$
  - Solve for x:-  $\frac{x-3}{x-4} + \frac{x-5}{x-6} = 3\frac{1}{3}$ ,  $x \neq 4, 6$
  - Solve :  $2x^2 - 5x + 3$  by the method of completing the square.
  - Two taps running together can fill a tank in  $3\frac{1}{13}$  hours, if one tap takes 3 hours more than the other to fill the tank, find the time in which each tap would fill the tank.
  - If  $S_n$  denotes the sum of first  $n$  terms of an A.P, prove that  $S_{12} = 3(S_8 - S_4)$
  - The 17<sup>th</sup> term of an A.P is 5 more than twice its 8<sup>th</sup> term. If the 11<sup>th</sup> term of the A.P is 43. Find its  $n^{\text{th}}$  term.
  - Find the 6<sup>th</sup> term from the end of the A.P : 17,14, 11.....-40.
  - If the 3<sup>rd</sup> and the 9<sup>th</sup> terms of an AP are 4 and -8 respectively, then which term of this A.P is zero?
  - Find the sum of first 20 terms of an AP whose  $n^{\text{th}}$  term is  $15-4n$ .
  - If the points P (x,y) is equidistant from the points A (5,1) and B (1, - 5) prove that  $3x = 2y$ .
  - Find the relation between x and y if the points A (x,y), B(-5,7) and c(-4,5) are collinear.
  - Find the ratio in which the y - axis divides the line segment joining the points (5,-6) and (-1,-4). Also find the coordinates of the point of intersection.
  - Find the value of K so that the area of the triangle with vertices (1,-1), (-4,2K) and (-K,-5) is 24 sq.units.

## SOCIAL SCIENCE

1. Prepare a project report on 'Consumer Awareness'. Write about the rights and duties as a consumer, legal measures available to protect from being exploited in markets. It may comprise of data, diagrams, charts and eco-friendly products which is relevant.
2. Map Work
  - a) On political map of India
    - i) Locate and label major Iron and Steel plants of India. ii) Locate and label major dams of India.
3. Frame extra Questions from the chapters (at least 10 questions).
4. Chapter - 2,3 (Eco) Chapter - 3,5 (History) Chapter - 4,5 (Geography) Chapter -2 (Political Science)

## SCIENCE

### Chemistry

1. Revise Ch- 1, Ch - 2, Ch - 4
2. Define the following terms with examples
  - a) Displacement Reaction b) Double displacement Reaction / Precipitation Reaction c) Decomposition Reaction d) Combination Reaction e) Oxidation / Reduction f) Rancidity / Corrosion
3. Draw a table of pH of at least 10 substances (acid, base, neutral)
4. Nomenclature (IUPAC) of Organic compounds.

### Biology

1. Diagram of Respiratory system, Circulatory system with proper description.
  - a) Define the following terms :- Excretion b) Synapse c) Reflex action d) Phototropism
2. Differentiate between tropic and nastic movements in plants.
3. Write in brief the role of various hormones in human body?

### Physics

1. Draw symbols:
  - (a) Potential difference b) Voltmeter c) Variable resistance d) Rheostat e) Switch in 'On' and 'Off' position f) Battery of three cells
2. Solve NCERT numericals in text as well as exercise of chapter electricity.
3. Revise chapter - Electricity and chapter - Magnetic effect of electric current.
4. Write the working of A.C generator with well labeled diagram.
5. State the rules with example.
  - a) Fleming's left hand rule b) Maxwell's cork screw rule c) Fleming's Right hand rule d) Right hand thumb rule.
6. Explain working of biogas plant with labeled diagram.
7. Frame 10 - 10 Multiple choice questions from chapter - Electricity, sources of energy and Magnetic effect of electric current.

## INFORMATION TECHNOLOGY

- 1) Read UNIT - 4, 5 and solve book exercise.
- 2) Revise Periodic Test - I syllabus
- 3) Make a project file of

### UNIT - II

- Web Application
  - ✓ Networking Fundamentals (Client Server architecture)
  - ✓ Creating and Publishing WebPages- Blogs
  - ✓ Internet Security

### UNIT - III

- Word Processing (Intermediate)
  - ✓ Modifying layout of a Paragraph
  - ✓ Managing headers and footers
  - ✓ Document template
  - ✓ Applying character formats
  - ✓ Inserting Graphical objects and illustrations

### UNIT - IV

- Using Auto sum in cells
- Conditional formatting
- Creating, Modifying and Formatting charts
- Sorting and Filtering data

Note :- Draw all the diagram of project file with hand.

## Punjabi

1. 'ਗੁੰਮ ਨੇ ਰਸੋਈ ਵਿੱਚੋਂ' ਕਵਿਤਾ ਪੜ੍ਹ ਕੇ ਉਸਦੇ ਪ੍ਰਸ਼ਨ - ਉੱਤਰ ਯਾਦ ਕਰੋ।
2. ਦੁਸ਼ਮਣੀ ਕਹਾਣੀ ਪੜ੍ਹ ਕੇ ਉਸਦੇ ਪ੍ਰਸ਼ਨ - ਉੱਤਰ ਯਾਦ ਕਰੋ।
3. ਨਵੇਂ ਖੁੱਲ੍ਹੇ ਕਾਲਜ ਤੇ ਜ਼ਮੀਨ ਵੇਚਣ ਸੰਬੰਧੀ ਇਸ਼ਤਿਹਾਰ ਲਿਖੋ।
4. ਤੁਸੀਂ ਦਸਵੀਂ ਤੋਂ ਬਾਅਦ ਕੀ ਕਰਨਾ ਚਾਹੁੰਦੇ ਹੋ ਉਸ ਸੰਬੰਧੀ ਵਿਦੇਸ਼ ਵਿੱਚ ਰਹਿੰਦੇ ਆਪਣੇ ਪਿਤਾ ਜਾ ਨੂੰ ਪੱਤਰ ਲਿਖੋ।
5. 'ਵਿਸ਼ਵ ਤਾਪੀਕਰਨ', ਨੈਤਿਕ ਕਦਰਾਂ - ਕੀਮਤਾਂ ਵਿੱਚ ਆ ਰਹੀ ਗਿਰਾਵਟ ਸੰਬੰਧੀ ਲੇਖ ਲਿਖੋ ।
6. ਕੋਈ ਦੇ ਚਿੱਤਰ ਲੈ ਕੇ ਉਹਨਾਂ ਦਾ ਵਰਨਣ ਕਰੋ।
7. ਮੁਹਾਵਰੇ ਯਾਦ ਕਰੋ - ਕ, ਖ, ਗ
8. ਦੁਹਰਾਈ - ਪਰਿਓਡਿਕ ਸਿਲੇਬਸ

## Art and Craft

1. Make a craft things with best out of waste material.
2. Make a handmade carry bag.
3. Make a paper envelop.

## PHYSICAL EDUCATION

1. Draw an Athletic track (on two pages)
2. Write & draw two jumping events - Long Jump, Triple Jump (Each event on two pages)
3. Write & draw two throwing events - Shotput, Discus throw (Each event on two pages)
4. Write & draw two games from giving the option (Each game on two pages)
5. Write 10 yoga Asana with pictures (Each Asana only one page)