SHRI JAIN PUBLIC SCHOOL, BIKANER

Summer HOLIDAY Homework

CLASS - IX

NAME :- _____

CLASS:-_____

SEC. ____
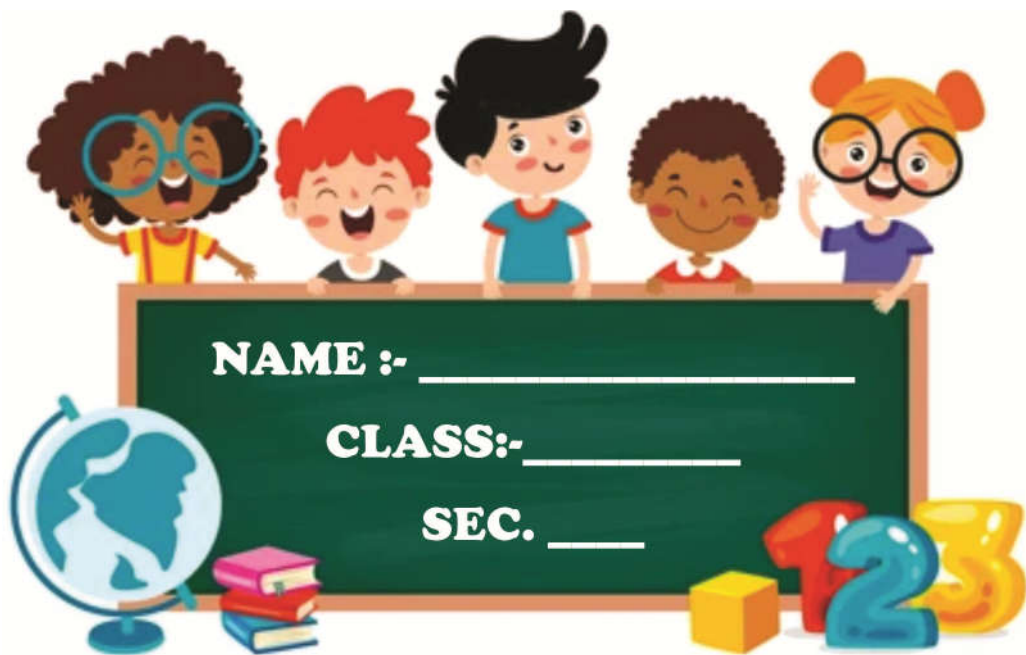
Dear Parents,

Vacation is the time for the children to explore their myriad interest and indulge in various activities which would lead to their all-round development.

We have tried to keep the homework simple, informative, interesting and fun filled. Here are a few tips for parents to act as a facilitator to help your child balance his/her eagerness in pursuing adventure, creativity and self-expression with development of responsibility.

- ➢ Make sure that you are spending quality time with your wards amidst this tensed environment.
- ➢ Teach them the importance of moral value in their life.
- ➢ Motivate them to read good books.
- ➢ Encourage and help your child in shouldering responsibilities in household chores. It will aid them to be independent.
- ➢ Keeping in view the extreme hot weather, indulge yourself in various indoor games with them.
- ➢ Encourage the child to wish 'Namaskar', 'Good Morning' and 'Good Night' to everybody.
- ➢ Encourage the child to speak simple sentences in English.
- ➢ Talk respectfully with the child and encourage your child to do the same.
- ➢ Motivate the child to use polite words such as 'Please', 'Thank You', 'Sorry', 'May I'.
- ➢ Revise the work done in classes.

GENERAL INSTRUCTIONS:

- • Holiday Homework of all subjects can be done in scrap book or in any other creative and innovative way.
- • Credit will be awarded to original ideas, illustrations and creative use of materials.
- • The project needs to be developed and presented in this order:
  - ➢ Cover page showing project title, student information, school and Academic year.
  - ➢ Index: list of contents with page numbers
  - ➢ Page limits (for each subject): Minimum 1 Maximum no limits.
  - ➢ Date of submission: 27th June, 22

ENGLISH

(i) Read the newspaper and write one news articles under the headings like natural, international, sports, glamour, business and express your views on it.

(ii) Visit at least one out of these- Orphanage, Old age home, Blind home etc. Write your experience about these places.

(iii) Develop your thoughts on the following topic in 150 to 200 words. "If I were the principal of SJPS".

(iv) Prepare a chart of kitchen vocabulary including 20 verbs and 20 nouns.
Note:– Do this work in a file.

(v) What's in a name. Do a research work on the name of both the English books. Find out the relevance of naming these books with reference to your class. Write down this research in file.

HINDI

(क) पत्र लेखन (100 शब्द)

    (अ) आप रमा शर्मा नैनीताल की रहने वाली हैं। राजस्थान में रहने वाली अपनी सखी दीपिका सिंह को ग्रीष्मवकाश में नैनीताल घूमने के लिए आमंत्रित करने हेतु पत्र लिखिए।

    (ब) नृत्य व संगीत में अपनी रूचि के बारे में जानकारी देते हुए इनकी कक्षाएँ लेने की आज्ञा माँगते हुए माताजी को पत्र लिखिए।

(ख) अनुच्छेद लेखन (150 शब्द)

    (अ) ''मेरे प्रिय कलाकार''

    (संकेत बिंदु- परिचय, विशेषताएँ, प्रेरणा स्त्रोत)

    (ब) ''विद्यार्थी एवं अनुशासन''

    (संकेत बिन्दु- अनुशासन का अर्थ, अनुशासन में रहने के तरीके, विद्यार्थी जीवन में महत्व)

(ग) कोई दो स्वरचित कविताएँ लिखिए-

    (अ) माँ   (ब) भाषा   (स) बचपन

MATHS

Q.1 The value of x, $5^{x-3} \times 32^{x-8} = 225$ if?

Q.2 If $x = \dfrac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$ and $y = \dfrac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ then value of $x^2 + xy + y^2$ is?

Q.3 If $\dfrac{9^n \times 3^2 \times \left[3^{-n/2}\right]^{-2} - (27)^n}{3^{3m} \times 2^3} = \dfrac{1}{27}$, then prove that m–n=1

Q.4 If $2^x = 3^y = 6^z$ then find the relation between x, y and z.

Q.5 Arrange $\sqrt{2}$, $\sqrt[3]{3}$ and $\sqrt[4]{5}$ in ascending order.

Q.6 If $x = 3 - \sqrt{8}$, find the value of $x^3 + \dfrac{1}{x^3}$.

Q.7 Simplify $12\sqrt{18} - 6\sqrt{20} - 3\sqrt{50} + 8\sqrt{45}$.

Q.8 Represent $\sqrt{10.5}$ on the number line.

Q.9 Express the following decimals as rational number:

(a) $3.2\overline{5}$ (b) $7.\overline{012}$

Q.10 If $x = 9 + 4\sqrt{5}$, find the value of $\sqrt{x} - \dfrac{1}{\sqrt{x}}$.

Q.11 Simplify and given the result in exponent form: $\dfrac{(25)^{5/2} \times (729)^{1/2}}{(125)^{2/3} \times (27)^{2/3} \times (8)^{4/3}}$

Q.12 Find the value of a and b: $\dfrac{5 + \sqrt{6}}{5 - \sqrt{6}} = a + b\sqrt{6}$

Q.13 A point lies on positive direction of x–axis at a distance of 7 units from the y–axis. What are its co-ordinates? what will be the co-ordinate, if it lies on negative direction of the y–axis at a distance of 7 unit from the x–axis.

Q.14 (a) Plot the following points on a graph paper.

x	1	2	3	4	5
y	5	8	11	14	17

Join these points. What do you observe?

(b) Find the co-ordinate of points where the line intersects the y-axis on producing.

Q.15 (i) Plot the following points in the co-ordinate plane: A(–4,4), B(–6,0), C(–4,–4), D(–2,0)

(ii) Name the figure formed by joining the points A, B, C and D also find its area.

Q.16 Find the distance of the following points from the y-axis, P(3, 0), Q(0, –3), R(22, –5), S(–3, –1)

Q.17 The base AB of two equilateral triangle ABC and ABC' with side 2a lies along the x-axis such that the mid point of AB is at origin. Find the co-ordinate of the vertices C and C' of the triangles.

Q.18 P is the point (3, 2) and Q is the point (m, 2). If sum of abscissa and ordinate of both points is equal, then the value of m is?

Q.19 Solve: $\sqrt{7 + \sqrt{48}}$

Q.20 Find the value of : $\left[\left\{\left(\dfrac{5}{6}\right)^{\frac{1}{5}}\right\}^{\frac{1}{6}}\right]^{30}$

Q.21 The point P(a, b) lies in the IV quadrant. Find which of a or b is greater?

Q.22 Two points with co-ordinates (4, 3) and (4, –2) lies on a line, Parallel to which axis?

Q.23 Find the perpendicular distance of the point P(3, 4) from y-axis?

Q.24 If $x^{-2} = 64$ then $x^{1/3} + x^0$ is equal to?

Assertion & Reason:

Each of the following questions contains two statements:

Statement- I (Assertion) and Statement - II (Reason) followed by four options, out of which only one is correct. Select the correct option.

(a) Both Statement-I and Statement-II are true.

(b) Both Statement-I and Statement-II are false.

(c) Statement-I is true, Statement- II is false.

(d) Statement-I is false, Statement-II is true.

Q.25 Statement-I: All the points P(0, 3), Q(0,–3), R(3, 0) and S(–3, 0) lie on axis.

Statement-II: Every point on x-axis is of the form (a, 0) and every point on y-axis is of the form (0,b)

Q.26 Statement-I: If a ≠ b then (a, b) ≠ (b, a)

Statement-II: (–4, 3) lies in quadrant IV

Q.27 Statement-I: The point A(3, -4) lies in quadrant IV and the point B(-4, 3) lies in quadrant II.

Statement-II: The signs of points in quadrant I, II, III and IV are respectively (+, +), (–, +), (–, –) and (+, –).

SCIENCE

Do Q.No. 1 & 2 in practical file.

Q.1 Preparation of the following:

(a) A true solution of common salt, sugar and alum.

(b) A suspension of soil, chalk powder and fine sand in water.

(c) A colloidal solution of starch in water and egg albumin/ milk in water and distinction between these on the basis of

(i) transparency   (ii) filteration criterion

(iii) stability

Q.2   Preparation of (a) a mixture (b) a compound using Iron filings and sulphur powder and distinguish between these on the basis of:

(i) appearance   (ii) behaviour towards magnet

(iii) behaviour towards CS_2 as a solvent (iv) Effect of heat

Q.3   On a standard size chart paper draw the colourful labelled diagram of Plant cell and Animal cell.

Q.4   Project / Assignment file.

(a)   Many municipal corporations are trying water harvesting techniques to improve available water. Find out what this techniques are and how they would increase the water that is available for use.

(b)   What is global warming? Find out the consequence of global warming. Also, find out the names of some other green house gases.

(c)   You have seen weather reports on television and new papers. How do you think we are able to predict the weather?

(d)   The students of a school went on a trip to a research institution at Delhi. There they came to know about the efforts of environmentalists to preserve national monuments like Taj Mahal from acid rain.

(i) What is acid rain & what are its consequences?

(ii) What can you as a student do to prevent the acid rain?

SOCIAL SCIENCE

(i)   Create awareness about different disasters like: Earthquake, cyclone, flood, landslide and forest fire. Points to be covered for above mentioned topic:

(a) Meanings   (b) Causes

(c) Precautions   (d) Rehabilitation (with relevant pictures)

(ii)   On an outline map of India mark the following physical features:

(a)   Mountain ranges: Aravalli, Vindhyas, Satpura, Western and Eastern Ghats.

(b)   Peaks- K2, Kanchanjanga, Anaj Mudi

(c)   Plateau- Deccan, Chotta Nagpur, Malwa

(d)   Coastal Plain- Konkan, Malabar, Caramandal, Northern circar