

AMRIT INDO CANADIAN ACADEMY
HOLIDAYS HOMEWORK
CLASS IX

General Instructions:

1. All the subjects' homework should be compiled in single file.
2. Use assignment sheets for completing the activities.
3. Pictures should be pasted along with date and time for survey projects.
4. Do spiral binding of all the sheets together.

ENGLISH

General Instructions

1. The project needs to be handwritten. No print outs would be accepted.
2. It should be presented in beautiful handwriting. Extra credit will be given for the same.
3. The project needs to be submitted in a simple, decently covered project file.
4. Originality and accuracy of the content will be given due credit.

Project

With a view to promote reading skills and develop precision in the writing skills, the students are required to prepare the summer holidays project file as under:

The students are required to read and paste any 9 articles chosen from the Editorial / OPED / Opinions page choosing any one of the newspapers given below:

1. The Hindu
2. The Tribune
3. Hindustan Times

The following tasks need to be done:

- i. Pasting the article on the Project file sheets.
- ii. Read the article thoroughly and write a summary of the same in about 250-300 words.
- iii. Translate the articles as per the following details and present the translation as part of the project file:
 - ✓ Any 5 articles to be translated into Punjabi
 - ✓ Remaining 4 articles to be translated into Hindi

The best projects will be selected and suitably rewarded.

Activity 1: Prepare the project on the elections

- (a) Parties contested elections with their party name and symbols.
- (b) Leaders of that parties
- (c) Alliance of political parties
- (d) Total number of constituencies, and why the number of constituencies is not same in all the states?
 - (i) Name of the constituencies of Punjab(name of winning candidates and pics)
 - (ii) (Ludhiana constituency in detail) candidates, parties symbols and vote share
 - (iii) Total reserved constituencies for Sc, B c and ST.
 - (iv) Slogans used by different parties to attract the voters
 - (v) Model code of conduct prescribed by election commission
 - (vi) Head of the election commission with picture
 - (vii) Result of elections

Activity2. Visit your area's Ration Shop and get the following details.

- (i) When does the ration shop open?
- (ii) What are the items sold at ration shops?
- (iii) What is the price of the Items sold at the ration shop?
- (iv) Compare the prices of rice and sugar from the ration shop with the prices of any other grocery shop?
- (v) Find out (a) Do you have a ration card?
 - (b) Have your family bought anything with this card from ration shop.
 - (c) Are there any problems that they face?
 - (d) Why are the ration shops necessary?

Activity3-. Survey based activity

Students will visit a farm in two villages and will talk to 5 farmers from each village (total 10 farmers from both villages) and will collect the following information , - Method of production, Types of Crop produced , Total yield , following questions will be asked from farmers.:

- Q1. What is the total area of Land under cultivation?
- Q2. What inputs are used to grow crops?
- Q3. How do you arrange money to buy these Inputs?
- Q4. What type of irrigation method do you use?
- Q5. What is the total yield?
- Q6. Which crop is produced on the land?
- Q7. What is MSP of the Crop produced?
- Q8. Are you using Manure or fertilizers to increase the crop production?
- Q9. What impact it will have on consumer's health?

Q10. Do you think using manure is more expensive rather than to use fertilizer?

4. Map Activity

Maps from Back exercise of lesson 1 and 2

5. How to File an FIR, PIL, and RTI? Write the steps and stages of the procedure.

6. Newspaper based activity

Most newspaper has an editorial page. On that page the newspaper columnists and editors their own opinions about current affairs. The paper also publishes the views of other writers and intellectuals and letters written by the readers. Follow any one news paper for one month and collect editorials , 10 articles and letters on that page that have anything to do with democracy. Classify these in to the following categories and give your views about the issues discussed:

- i) Constitutional and legal aspects of democracy
- ii) Citizen's rights
- iii) Electoral and party politics
- iv) Criticism of democracy

SCIENCE

Visit the website navinkhambala.com and make two working projects of your choice at home and bring the same after vacations. Make a report on the materials used, procedure for preparation and functioning of the project in daily life.

MATHEMATICS

Multiple Choice Questions

- Write the value 3.12 in the form of $\frac{p}{q}$
(a) $\frac{312}{99}$ (b) $\frac{100}{312}$ (c) $\frac{312}{100}$ (d) $\frac{281}{90}$
- $(\sqrt{2} - \sqrt{3})^2$ is equal to
(a) -1 (b) $5 - 2\sqrt{6}$ (c) 5 (d) 1
- The rational number between 2 and 3 is :-
(a) $\sqrt{2}$ (b) $\sqrt{3}$ (c) 5 (d) 1
- When $a^3 + 5a^2 + 5a - 2$ is divided by $(a + 2)$, the remainder is
(a) 16 (b) 0 (c) -40 (d) 10
- Factors of $x^3 - 1$ is (are) :-
(a) $x - 1$ (b) $x^2 + x + 1$ (c) both (a) and (b) (d) $x + 1$
- If $a + \frac{1}{a} = 3$, then $a^2 + \frac{1}{a^2}$ equals to :-
(a) $\frac{82}{9}$ (b) 11 (c) $\frac{10}{3}$ (d) 7
- Factors of $49y^2 - 14y + 1$ are :-
(a) $(7y - 1)(7y + 1)$ (b) $(1 - 7y)(1 - 7y)$
(c) $(7y - 1)(7y - 1)$ (d) None of these
- The value of 'k' for which the polynomial $x^3 - 3x^2 + 3x + k$ has 3 as its zero, is
(a) -3 (b) 9 (c) -9 (d) 12

Short Answer questions

- For the given point P(3,4), what is the distance of the point P from (i) X-axis
(ii) Y-axis
- A point lies on X-axis at a distance of 7 units from Y-axis. What are its co-ordinates? What will be the co-ordinates of the point if it lies on Y-axis at a distance of 7 units from X-axis?
- Where will you find all the points (a,b) such that (i) $a > 0$ and $b < 0$
(ii) $a = 0$ and $b > 0$
- Find the value of $\sqrt{\frac{1089}{400}} - \frac{660}{400}$
- Write 0.48 in the form of $\frac{p}{q}$
- Find the value of $\frac{7 + 3\sqrt{5}}{3 + \sqrt{5}} - \frac{7 - 3\sqrt{5}}{3 - \sqrt{5}}$
- Simplify $(\frac{81}{16})^{-3/4} \times (\frac{25}{9})^{-3/2} \times (\frac{2}{5})^{-3}$
- Simplify $\frac{2}{\sqrt{3} + \sqrt{5}} - \frac{1}{\sqrt{3} + \sqrt{2}} - \frac{1}{\sqrt{2} + \sqrt{5}}$
- Factorize
(a) $a^3 + 8b^3 - 64c^3 + 24abc$
(b) $64m^3 - 343n^3$
- If $x + y = 5$, $x^2 + y^2 = 111$, then find the value of $x^3 + y^3$
- How many linear equations in x and y can have a solution as $(x = 1, y = 3)$?
- Give three examples a non linear equation in two variables
- Show that $x = 2$ and $y = 1$ satisfy the linear equation $2x + 3y = 7$.
- Write four solutions of $2x + 3y = 8$.
- From the line $x + 2y = 6$, find the value of x when $y = -3$.
- Expand $(4x - 2y - 3z)^2$ by using suitable identity
- If $ax^3 + bx^2 + x - 6$ has $(x+2)$ as a factor and leaves remainder 4 when divided by

- (x - 2) , Find the values of a and b
26. If $x + \frac{1}{x} = 4$, then find $a^3 + \frac{1}{a^3}$
27. If A and B be the remainders when the polynomials $x^3 + ax^2 - 12x + 6$ are divided by (x +1) and (x -2) respectively and $2A + B = 6$, find the value of 'a'
- Project work**
28. To prove the identity $(a + b)^3 = a^3 + b^3 + 3a^2b + 3ab^2$
29. To obtain the mirror images of the points (5,-3) and (-3,-4) in X- axis and Y- axis
30. Construct the square root spiral till $\sqrt{7}$

INFORMATION TECHNOLOGY

Create your resume (Bio data). It should have your name, address, email address, date of birth, nationality, languages known, educational qualifications, extracurricular activities you have participated in, awards won etc.

You must use the following features of a word processor to write the letter:

- Bold and Underline some parts of the text.
- Bullets
- Change the margins
- Format Text
- Page background
- Insert you passport size photograph
- Save the document
- Take a Print out.