

G.A.V. PUBLIC SCHOOL(PATAUDA)

Holiday Homework

Class-XI

Session (20181-19)

Instructions for the Holiday Homework:

Note: - Holidays homework carries marks ; hence submission of work post vacation is compulsory for all students.

- 1. The student will be assessed for the handwriting, presentation, neatness, completion of all the given question, indexing of the work.*
- 2. Projects and homework notebook must be labelled properly indicating very clearly the Name , Class with section and Roll no.*
- 3. Questions must be done in the given sequence & maintain the tidiness in the notebooks.*
- 4. Avoid deletions or using white fluid or any overwriting.*
- 5. Parents can be the facilitators for the child at home but let the child complete his / her work independently & in his / her own handwriting.*
- 6. **Revise all the chapters being taught for test after the summer break.***

ASSIGNMENT:

QUESTION 1:

*Read any one story from collection of 32 stories in the famous book of R.K Narayan's , **Malgudi Days** and write its summary, theme, character, plot and review of book.*

QUESTION 2:

*Write the **character sketch** of any of your favourite character from the book, "**Hornbill**".*

QUESTION 3:

Activity : *Read the newspaper daily and find out samples of the following:-*

- 5 Reports*
- 5 Posters*
- 5 Advertisements[example-situation vacant, lost and found, missing and obituary] Paste them neatly in the writing-skills notebook.*

Make a separate column with heading as “Vocabulary” and write different new words you read in newspaper along with its meaning and its usage in a sentence.

Writing Skills:

QUESTION 4:

- a. *Write a letter to the Editor of a national daily highlighting the neglect of our national monuments and how these are being damaged in the present day world.*
- b. *Write a letter of complaint to the Sales-Manager of a renowned mobile phone company, asking him to replace your recently purchased set as it has developed numerous faults.*
- c. *Write an article on the topic- ‘Harnessing Solar Energy- a viable option for India.’ [150-200 words]*
- d. *You are a staff reporter of a national daily. You were asked to cover a District Science Exhibition. Mentioning all relevant details, write a report in 150-200 words.*
- e. *Describe your favorite holiday destination and write what makes it a ‘happening tourist destination’*

Make optimum use of this time to cultivate your interest in co-curricular activities. Have fun with family and friends.

Happy Holidays.

Biology

-Do NCERT questions of chapter : Biological Classification

-prepare a model on human skeleton system.

- prepare a project report on the topic .. how cigarettes affect your health take real life examples for your project report and also paste photographs in your project.(Inspired by your own case studies in your surroundings).

Chemistry

1) Calculate the molecular mass of the following :

(i) H_2O (ii) CO_2 (iii) CH_4

2) Calculate the mass per cent of different elements present in sodium sulphate(Na_2SO_4).

- 3) Determine the empirical formula of an oxide of iron which has 69.9% iron and 30.1% dioxygen by mass.
- 4) Calculate the mass of sodium acetate (CH_3COONa) required to make 500 mL of 0.375 molar aqueous solution. Molar mass of sodium acetate is $82.0245 \text{ g mol}^{-1}$.
- 5) Determine the molecular formula of an oxide of iron in which the mass per cent of iron and oxygen are 69.9 and 30.1 respectively.
- 6) Express the following in the scientific notation:
 - (i) 0.0048
 - (ii) 234.000
 - (iii) 8008
 - (iv) 500.0
 - (v) 6.0012
- 7) How many significant figures are present in the following?
 - (i) 0.0025
 - (ii) 208
 - (iii) 5005
 - (iv) 126.000
 - (v) 500.0
 - (vi) 2.0034
- 8) Calculate the number of atoms in each of the following (i) 52 moles of Ar (ii) 52 u of He (iii) 52 g of He.
- 9) Calculate the molarity of a solution of ethanol in water in which the mole fraction of ethanol is 0.040.
- 10) How are 0.50 mol Na_2CO_3 and 0.50 M Na_2CO_3 different?
- 11) Calcium carbonate reacts with aqueous HCl to give CaCl_2 and CO_2 according to the reaction, $\text{CaCO}_3 (\text{s}) + 2 \text{HCl} (\text{aq}) \rightarrow \text{CaCl}_2 (\text{aq}) + \text{CO}_2 (\text{g}) + \text{H}_2\text{O} (\text{l})$. What mass of CaCO_3 is required to react completely with 25 mL of 0.75 M HCl?
- 12) If the density of methanol is 0.793 kg L^{-1} , what is its volume needed for making 2.5 L of its 0.25 M solution?

CLASS : XI Subject: Physics

Do numerical on the following topics :

1. 20 Numerical on Dimensional analysis .
2. 20 Numerical on Error calculation.
3. 20 Numerical on Triangle law of vector addition and resolution of vector.
4. 20 Numerical on Average velocity or speed.
5. 20 Numerical on Relative velocity.

Revise

Unit: Physical quantities and its measurement

Unit: Kinematics

MATH

1. Making a chart of definition of sets and types of sets.
2. Making a chart of trigonometry quadrant.
3. Do miscellaneous exercise of
Ch- 1 sets
Ch- 5 complex number
Ch- 8 binomial theorem.

