

ST. KAREN'S SECONDARY SCHOOL
Khagaul Road, Danapur, patna
2020 – 2021

HOLIDAY HOMEWORK-PROJECT WORK-COPY WORK

CLASS – 12 - E

GENERAL INSTRUCTION

Copy Work

- Write all the contents and assignments in serial i. e. Content 1 and then assignment 1, next content 2 then assignment 2 and so on... .
- Index of the copy has to be filled.
- Name of the chapter and the date has to be mentioned according to given in the content and assignment.
- Do the work neatly in the copy.
- Writing should be clear and legible.
- All the diagrams has to be drawn and labelled on the white sheet with the pencil.

Project Work

- Project has to be done on bio sheets and put in one single bio file only.
- Make a cover page mentioning the name, class, section, roll number, subject, and the name of the teacher.

Example:-

Name: Ankita Kumari
Class/section: 9- G Roll number: 01
Subject: Science
Name of the teacher: Miss. Shalini Kumari

- Index with date, acknowledgement and bibliography should be there in the project.

Holiday homework:-

- All holiday homework has to be done in copy only.

English Summer Vacation Project

INSTRUCTIONS :

- The following project should be prepared in A4 sized ruled sheets stapled on the left hand side & filed in one stick file.
- The word – limit should be strictly followed.
- The project should contain the following as per the sequence given below :
 - 1. *Creative Cover Page should include the Name, Class, Section, Roll No. of the students & the Subject.*
 - 2. *Second Sheet should contain the assignment questions.*
 - 3. *Third page onwards the students can write the ANSWER.*

TOPIC

Write an article on - "**SOCIO-ECONOMIC IMPACT OF COVID-19 PANDEMIC AND SIGNIFICANCE OF AWARENESS, SANITATION AND SELF-DISCIPLINE IN CONTROLLING IT**".

(250 – 300 words)

English Summer Vacation Homework

INSTRUCTIONS :

- The following questions should be answered in English fair copy. Each question should be written on a new page and then answered properly.
- The word – limit should be strictly followed.

Q.1. The poem ‘**Keeping Quiet**’ leaves a message of universal brotherhood and peace. It urges people to stop all sorts of aggression including that towards environment and do a bit of introspection. How is the poem relevant to the present scenario of human existence ? **(200 – 250 words)**

Q.2. How can empathy be the best healer ? Answer this question with reference to present scenario and by taking hints from the lesson – ‘*The Enemy*’ in **(200 – 250 words)**

NOTE : FOR ONLINE STUDY MATERIAL VISIT –
<http://ncert.nic.in/textbook/textbook.htm>

PHYSICS

1. CHAPTER: (ELECTRIC CHARGES AND FIELDS)-

- @ DO ALL IN-TEXT QUESTIONS(Q.N. 1.1 TO 1.13) FROM NCERT BOOK.
- @ DO ALL EXERCISE QUESTIONS (Q.NO. 1.1 TO 1.34) FROM

NCERT BOOK.

2. CHAPTER : (ELECTROSTATIC POTENTIAL AND CAPACITANCE)-

- @ DO ALL IN-TEXT QUESTIONS (Q.NO. 2.1 TO 2.10) FROM NCERT BOOK.
- @ DO ALL EXERCISE QUESTIONS (Q.NO. 2.1 TO 2.37) FROM NCERT BOOK.

3. PROJECT WORK:

- @ MAKE LIST OF 15 ELECTRICAL APPLIANCES USED AT YOUR HOME.
- @ MARK THEIR POWER IN KILOWATT AND VOLTAGE
- @ FIND VALUE OF ELECTRIC CURRENT USED BY THEM USING OHM’S LAW.

CHEMISTRY

PROJECT WORK

1. Write all formulas related to chapter solution (Unit 2) and The Solid State (Unit 1) on chart paper.
2. Draw a Crystal Lattice diagram of NaCl on Chart paper.

NUMERICAL PROBLEMS

1. Solve some important Numerical Problems from the exercise of Unit – 2 from NCERT. (Q. No. – 2.6, 2.8, 2.20, 2.21, 2.22, 2.35, 2.40).
2. Solve Numerical Problems related to the Solid State (Unit 1) from NCERT. Q. No. – 1.11, 1.15, 1.16, 1.21, 1.24.

MATHEMATICS

Solve the following exercises from NCERT book

1. Chapter 1-Relation and Function:- Ex 1.1, 1.2, 1.3.

2. Chapter 2- Inverse Trigonometric Function:- Ex 2.1, 2.2.
3. Chapter 3- Matrices:- Ex 3.1, 3.2, 3.3, 3.4.
4. Chapter 4-Determinants:- Ex 4.1, 4.2, 4.3, 4.4, 4.5, 4.6.
5. Project work:-
 Draw the graph of $\sin^{-1}x$, $\cos^{-1}x$ and $\tan^{-1}x$ in their principal value branch in graph copy.
 Do summer holiday work in Maths homework copy.

Note:- Syllabus for 1st unit test- Relation Functions, Inverse Trigonometric functions.

COMPUTER SCIENCE

Assignment :

1. Write a python program for n – th Fibonacci number .
2. Write a python program for how to check if a given number is Fibonacci number .
3. Write a program in python to multiply all numbers in the list .
4. Write a program in python to find N largest element from a list .
5. Write a python program to count positive and negative numbers in a list.
6. Write a python program to count Even and Odd numbers in a list .
7. Write a program in python to find the product of unique prime factors of a number .
8. Write a python program to find the vertex , focus and directrix of a parabola .
9. Write the python code for the following pattern :

A	0
ABC	101
ABCDE	21012
ABCDEFG	3210123
ABCDEFGH	432101234
10. Write a python program to input any number from the user then perform the following calculation :
 - (i) Sum of digits
 - (ii) Product of digits
 - (iii) Reverse of the number
 - (iv) Check whether the number is Palindrome or not
 - (v) Check whether the number is Armstrong Number or not .
11. Project Work : Make a mini Project by taking the help from Loop constructs , String , List , Tuple and Dictionary only .
 (Choose Any one Topic from the following) : Student Management System .
 Banking System / Bank Transaction
 Hotel Management System Library
 Management System School
 Canteen
 Salary Management Application
 Bookstore Management