

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

**HOLIDAY HOMEWORK-PROJECT WORK-COPY WORK**

**CLASS – 12 - B**

**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**

**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 1<sup>st</sup> 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

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