



St. XAVIER'S HIGH SCHOOL
EDUCATION FOR ALL

BANKURA, WB
Affiliation No.: 2430130

Affiliated to CBSE (New Delhi) 10+2 level
School Code: 15720

SUMMER VACATION ASSIGNMENT FOR CLASS-XII-SCIENCE

SUBJECT: ENGLISH

- 1) You are Prabha/Prabhu Mittal, of Mother Teresa Public School, Raniganj. Write a notice, in not more than 50 words, for school notice board, inviting the students to participate in the inter-school swimming competition.
- 2) You are Mohit/Mohita Sobti, Cultural Activity Incharge of B.P.S. International School, Vrindavan. Your school is planning to organise Poetry Recitation Competition in the school auditorium. Draft a notice, in not more than 50 words, inviting the students for the same. You may invent the necessary details.
- 3) Xerox one passage as per your choice, write the answers in your copy. Question of the passage in Xerox form must be attached in your assignment copy

SUBJECT: MATH

1. Write 5 activities in practical notebook.
 2. Solve the example problems of ncert textbook.
- (***Activities will be provided in class group shortly)

SUBJECT: PHYSICS

PROJECT

A. To prepare Investigatory project for AISSCE, 2024-25 for Physics (042).

Following points should be followed properly:

1. The project should be in A4 white sheet in Handwritten form. No printed projects are accepted.
2. The project must contain:
 - a) Cover page (Printed) with school name, school logo, Topic name, any cover picture related to provided topics, submitted by(Student name), Class, Board roll no.(Leave as blank space), session, subject Physics (042), Guided by (Subject Teacher name).
 - b) Certificate (Printed, Format will be provided)
 - c) Acknowledgement (Printed, Format will be Provided)
 - d) Index (Handwritten)
 - e) Content (Handwritten)
 - f) Conclusion (Handwritten)

g) Bibliography (Handwritten)

3. The content must contain Introduction, Topic description, Advantages, Disadvantage, application etc.
4. Project must contain Picture representation and statistical representation (if any).
5. Topics for the investigatory project will be provided shortly in the class group.
6. Compile all pages in a channel file.

PRACTICALS

INSTRUCTIONS:

1. *There will be two practical notebook- one for ACTIVITY, another for EXPERIMENTS. Students have to write total 6 activities and 8 experiments.*
2. *Activities should be written in activity notebook and Experiments should be written in experiment notebook.*
3. *PDF of experiments and activities will be provided in class group shortly.*
4. *Observation table should leave vacant. Values should be written after doing the practical.*

A. Write the following activities Activity notebook:

Activity No.1- To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.

Activity no.2- To assemble the components of a given electrical circuit.

B. Write the following experiments in experiment notebook:

Experiment No.1- To determine resistivity of two wires by plotting a graph for potential difference versus current.

Experiment No. 2- To find resistance of a given wire using metre bridge.

Experiment No. 3- To verify the laws of combination (series) of resistances using a metre bridge.

SUBJECT: CHEMISTRY

Investigatory Project for AISSCE,2024-25:

1. Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc. (Roll No.-1- 6 & 35-42& 55-60)
2. Study of common food adulterants in fat, oil, butter, sugar, turmeric power, chilli powder and pepper. (Roll No.-7- 12 & 19- 26&49- 54)
3. Study of the presence of oxalate ions in guava fruit at different stages of ripening. (Roll No.- 13-18&27- 34 & 43-48)

(Roll nos. will be given in class group)

SUBJECT: BIOLOGY

A. To prepare Investigatory project for AISSCE, 2024-25 for Biology (044).

Following points should be followed properly:

1. The project should be in A4 white sheet in Handwritten form. No printed projects are accepted.
2. The project must contain:
 - a) Cover page (Printed) with school name, school logo, Topic name, any coverpicture related to provided topics, submitted by (Student name), Class, Board roll no. (Leave as blank space), session, subject (Biology 044), Guided by (Subject Teacher name).
 - b) Certificate (Printed, Format will be provided)
 - c) Acknowledgement (Printed, Format will be Provided)
 - d) Index (Handwritten)
 - e) Content (Handwritten)
 - f) Conclusion (Handwritten)
 - g) Bibliography (Handwritten)
3. The content must contain Introduction, History, Topic description, Advantages, Disadvantage etc.
4. Project must contain Picture representation and statistical representation (if any).
5. Topics for the investigatory project will be provided shortly in the class group.
6. Compile all pages in a channel file.

B. Write these three experiments in practical notebook with well labelled diagram from the provided PDF in class group:

Experiment No.1- To Prepare a temporary mount to observe pollen germination.

Experiment No.2- To study the plant population density by quadrat method.

Experiment No. 3- To study the plant population frequency by quadrat method.

SUBJECT: PHYSICAL EDUCATION

Write the practicals in laboratory note book.

(Sample pdf will be provided in class group

SUBJECT: COMPUTER SCIENCE

1.	Which of the following is not a valid variable name in Python? Justify reason for it not being a valid name. i) K V S ii) Kvs iii) KvS iv) kvs1
2	Which of the following is / are keywords in Python? i) None ii) No iii) Non iv) NONE
3	Name the Python Library modules which need to be imported to invoke the following functions : i) sin() ii) ceil()
4	Given is the following Dictionary dict={1:'A',2:'B',3:'C',6:'D',4:'E'} ? What is the output of the command print(dict[6])

5	<p>Which of the options out of (i) to (iv) the correct data type for the variable lst is as defined in the following Python statement? lst = ('A', 'E', 'T', 'O', 'U')</p> <p>(i) List (ii) Dictionary (iii) Tuple (iv) Array</p>
6	<p>Write a statement in Python to declare a dictionary day whose keys are 1, 2, 3 and values are Monday, Tuesday and Wednesday respectively.</p>
7	<p>Write the output from the following code s = 'Global' 'T' in S</p>
8	<p>What is the output of the following expressions i) 34//3 ii) 34/3</p>
9	<p>Write the output of the following Python code : for i in range(5,20,5): print (i + '-')</p>
10	<p>if the following code is executed, what will be the output of the following code? s = "This is python language" print(s [8 ::])</p>
11	<p>In SQL, write the query to display the list of database in the server.</p>
12	<p>Evaluate the following expressions: a) $6 + 3 * 4 ** 2 - 5 // 4$ b) $12 > 15$ and $15 < 12$ or not $18 > 31$</p>
13	<p>def simple_interest(p, r, t): return (p*r*t)/100 print (simple_interest(100,5,2)) Identify the formal and actual parameters in the above code snippet. Define formal and actual parameters in a function.</p>

14	<pre>c = 10 def add(): global c c = c + 2 print("Inside add():", c) add() c=15 print("In main:", c)</pre> <p>output: Inside add() : 12 In main: 15</p> <p>Consider the above program and justify the output. What is the output if “global c “ is not written in the function add().</p>
15	<p>Consider the following function headers. Identify the correct statement and state reason</p> <ol style="list-style-type: none">1) def correct(a=1,b=2,c):2) def correct(a=1,b,c=3):3) def correct(a=1,b=2,c=3): <p>def correct(a=1,b,c):</p>

NOTE : ALL THE ASSIGNMENT MUST BE DONE IN A RULED COPY.