



Summer Vacation Homework CLASS – 12th Medical

**SURAJ
SCHOOL**
MAHENDERGARH

Dear Students

Please do this in Holiday Homework Notebook and take your parents help to do this task.

Subject

❖ **ENGLISH**

Learning

Learn all short and long answer question from the following lessons and poems in Flamingo.

Lessons

- The Last Lesson
- Lost Spring
- Deep Water
- The Rattrap
- Indigo

Poems

- My Mother at Sixty Six
- Keeping Quiet
- A Thing of Beauty
- A Roadside Stand
- Aunt Jennifer's Tigers

Writing

Write theme and Message of each poem mentioned below :

- My Mother at Sixty Six
- Keeping Quiet
- A Thing of Beauty
- A Roadside Stand
- Aunt Jennifer's Tigers

Write Seven notices based on the following:-

- Cultural Activities
- Academic Activities
- Sportss, Exursion and Fetes
- Lost & Found

Write articles having following titles :

- Changing trends in education
- Role of youth in frightening corruption
- Status of women in society
- Why is tourism not flourishing India
- Importance of hard work and punctuality in a student life

Activity

- ❖ Cut 10 - 15 different reports from English Newspapers about current global issues and Social Problems and paste them in your notebook.

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Subject ❖ Music Hind Vocal	
 Learning +  Writing	1. ताल परिचय – रूपक ताल, झपताल, धमार ताल, 2. परिभाषाएं – अंलकार, ग्राम, कण स्वर, वर्ण, आलाप, खटका, मुर्की, मूर्च्छना, गमक, मींड़, तान 3. ग्रंथ परिचय – ☒ संगीत रत्नाकर ☒ संगीत परिजात 4. रागो का शास्त्रीय परिचय – ☒ राग भैरव ☒ राग मालकौंस ☒ राग बागेश्री 5. रागों के समय सिद्धांत के बारे में आप क्या जानते हैं? वर्णन कीजिए।

Subject ❖ Physical Education	
 Learning +  Writing	Unit 1 planning in sports Unit 2 children and women in sports
 Activity	Prepare daily routine exercise for 21 st June

Subject ❖ Additional Mathematics																	
 Learning +  Writing	❖ SOLVE CHAPTERWISE MCQ, ASSERTION - REASON, CASES BASED STUDY QUESTIONS & HOT OF FOLLOWING : <table><tr><td>Ch-1 Relations & Functions</td><td>Ch-5 Matrix Continued.</td></tr><tr><td>Ch-2 Inverse Trigonometric Functions</td><td>Ch-6 Continuity of Differentiability</td></tr><tr><td>Ch-3 Algebra of Matrices</td><td>Ch-7 Differentiation</td></tr><tr><td>Ch-4 Determinants</td><td></td></tr></table> ❖ SOLVE NCERT QUESTIONS CHAPTERWISE AS FOLLOWS : <table><tr><td>Ch-1 Relations & Functions</td><td>Ch-5 Matrix Continued.</td></tr><tr><td>Ch-2 Inverse Trigonometric Functions</td><td>Ch-6 Continuity of Differentiability</td></tr><tr><td>Ch-3 Algebra of Matrices</td><td>Ch-7 Differentiation</td></tr><tr><td>Ch-4 Determinants</td><td></td></tr></table>	Ch-1 Relations & Functions	Ch-5 Matrix Continued.	Ch-2 Inverse Trigonometric Functions	Ch-6 Continuity of Differentiability	Ch-3 Algebra of Matrices	Ch-7 Differentiation	Ch-4 Determinants		Ch-1 Relations & Functions	Ch-5 Matrix Continued.	Ch-2 Inverse Trigonometric Functions	Ch-6 Continuity of Differentiability	Ch-3 Algebra of Matrices	Ch-7 Differentiation	Ch-4 Determinants	
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 Activity	❖ MAKE A CHART ON :- ✓ Trigonometric Formula & ITF Formula ✓ Relations And Functions & Matrices Formula																

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Subject		❖ Physics
 Learning	❖ UNIT - 1 Electrostatics ❖ Unit - 2 Current Electricity ❖ Unit - 3 Moving charges & Magnetism	
 Writing	✓ Write all NCERT Numerical of UNIT - 1, 2 & 3 in Holiday Notebook ✓ Write Conceptual problems of UNIT 1, 2, 3 & 3 in Holiday Notebook ✓ All Complete Assignment	
 Activity	❖ Make a chart on Wheatstone Bridge	

Subject		❖ Chemistry
 Learning +	❖ #Ncert intex questions ❖ #Ncert exercise questions	❖ Chapter ✓ Chapter : 1 solutions ✓ Chapter : 2 Electrochemistry ✓ Chapter : 3 Chemical kinetics ✓ Chapter : 4 D & f Block Elements ✓ Chapter : 5 Co - Ordination Compound
 Writing		
 Activity	❖ #Complete practical record (file) ❖ #Project work and making chart (Any two) on given Topics..... i. Commercial cell ii. Lead storage battery or iii. fuel cell iv. Cell v. Osmosis in daily life vi. Biofuel Energy vii. Solar Energy viii. Urea production and preparation ix. Renewable energy	

Subject		Biology
 Learning	❖ Solve NCERT questions of Unit - I and Unit - II Unit - I Ch - 1 Sexual reproduction in flowering plants Ch - 2 Sexual Reproduction In Human Ch - 3 Reproductive Health Unit - II Ch - 1 - Principle of inheritance and variation	
 Writing	✓ Make flow chart of the important topics	
 Activity	❖ Draw diagram related to Unit - I in a separate notebook ❖ Solve Mendelian cross based on the contrasting - traits (Monohybrids & dihybrids) ❖ Spermatogenesis oogenesis menstrual cycle	

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Subject	❖ COMPUTER SCIENCE
Learning Work	Unit : 1 Computational thinking and Programming - 2 ▪ Ch: 1 Revision of Python Programming - I ▪ Ch: 2 Revision of Python Programming - II ▪ Ch: 3 Revision of Python Programming - III ▪ Ch: 4 Functions ▪ Ch: 6 File Handling Learn all MCQ, short Q/A, long Q/A, Assertion, Reason based questions and case based study i.e given in book exercise whether it is solved or unsolved
Reading Work	Pre - Reading of : Part - I Text files (Pg no. 286 - 335) Part - II Binary files (Pg no. 336 - 379) Part - III CSV files (Pg no. 380 - 412)
Writing work	Do given Revision Assignment - 1 (Ch. 1,2,3) Revision Assignment - 2 (Ch. 4,6) i.e attached with your Holiday HW. Do your writing work in computer science fair notebook
Practical Work	1. Write a Python code to input three unequal number. Display the greatest and the smallest numbers. (page no. 40) 2. Write a Python code to display the first ten terms of the following series : 2,5,10,17 ... (page no. 54) 3. Write a Python code to input a string and check whether it is palindrome or not (page 128) 4. Write a Python code to accept an integer no pas it to a function which returns its number of factors. Finally, display whether the number is a prime no. or not. (page no. 177) 5. Write a function result () to open a file 'marks. text' in write mode. Store names of the five students along with the marks secured in English, Maths and computer science in this file. (page no. 315)

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Revision Assignment-1

Class : XII

Chapter-1,2,3

Subject: Computer Science(083)

Section-A (Assertion-Reason Based Questions)

Choose an appropriate statement from the options given below for Assertion – Reason :

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true and R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.
- (e) Both A and R are false.

1. **Assertion (A):** The data type of a variable is declared as per the type of value assigned to it.
Reason (R): In Python, Boolean is defined as non- numeric data type. It is represented in textual form such as True or False.
2. **Assertion (A):**In Python , list is a mutable sequence and tuple is an immutable sequence.
Reason (R): Mutable means the new values can be stored in the same memory location. Whereas, immutable never allows to change their values in the same memory location.
3. **Assertion (A):** The break and continue are known as jump statements.
Reason (R): These statements can only be used with looping constructs but not with conditional constructs.
4. **Assertion (A):** The process of repeating a set of elements in a string is termed as replication.
Reason (R): This task is performed using (*) operator along with a number that specifies the number of replications.

Section-B (Short Answer Type Questions)

5. What is the difference between '/' and '%' operators?
6. What is meant by type conversion?
7. What is the significance of using the keyword 'import'?
8. Explain the term 'Type Casting'.
9. What do you mean by loop?
10. Name any three operations that can be implemented on a sequence.
11. Define Python 'Sequences' with examples.
12. Distinguish between :
 - (i) Len () and count ()
 - (ii) Del and pop ()

Section-C (Long Answer Type Questions)

13. Explain all Random functions with example.
14. Explain all Mathematical functions with example.
15. Differentiate between for loop and while loop.
16. Explain range () function used in for loop.
17. Write syntax of if, if-else statements.
18. Explain Dictionary with example.
19. Explain 'if-elif-else' construct with an example.
20. Differentiate between following:
 - (i) List and Tuple
 - (ii) Break and Continue

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Revision Assignment-2

Class : XII

Subject: Computer Science (083)

Ch. No. : 4, 6

Section-A (Assertion-Reason Based Questions)

Choose an appropriate statement from the options given below for Assertion – Reason :

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true and R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.
- (e) Both A and R are false.

1. **Assertion (A):** When a function is defined with a list of parameters with function name in the function header, it is known as parameterized function.
Reason(R): A non- parameterized function does not include parameters with the function name in the function header. Thus, the parenthesis remains empty and no arguments are passed while calling the function.
2. **Assertion (A):** The positional parameters receive the values irrespective of the corresponding order of the arguments in the functions header.
Reason (R): It means that three arguments are to be passed to the function, the first argument will be assigned to the first parameter, second argument to the second parameter and the third argument to the third parameter.
3. **Assertion (A):** The file is a named location to store some information in specific format in a secondary storage device.
Reason (R): In python, the files are classified as program files and data files. A file containing program is said to be program file whereas, one that store data is called as data file.
4. **Assertion (A):** The mode 'w' open a text file in write mode.
Reason (R): The 'a+' mode open a text file for both append as well as read mode. In 'a+' mode the file pointer is placed at the end of the file for adding the records, if the file exists. In case, the file does not exist, it creates a new file.

Section-B (Short Answer Type Questions)

5. Define function. Why do we use a function in a program?
6. What are the components of a function?
7. What are the different task that can be performed during file operations?
8. What is the file object?
9. What is the purpose of close () function in file handling?
10. How to find the following attributes when a file is opened?
 - (i) Name of the file
 - (ii) Mode of the file number
 - (iii) To ensure whether the file is closed or not
11. What is meant by scope of variable?
12. What is the significance of using flush () method in file handling?

Section-C (Long Answer Type Questions)

13. Distinguish between:
 - (i) actual parameters and formal parameters
 - (ii) local variable and global variable
14. Write down the syntax of function body and the main program of a python code.
15. Explain absolute path and relative path with example.
16. Explain different functions to read data from a file.
17. Specify the meaning of the following modes while file handling: w+, a+, r+
18. Explain seek () and tell () functions.
19. Distinguish between text files, binary files and CSV files.
20. Explain the components of absolute path with example.