

SAINIK SCHOOL, AMARAVATHINAGAR

HOLIDAY HOMEWORK – 2019 – 2020

Class: XI

Subject: COMPUTER SCIENCE (083)

S. NO	TOPIC	ACTIVITY	TIME PERIOD	SKILL ENHANCED / LEARNING OUT COMES	ANNEXURE NO
1	Computer Fundamentals	Questions & Answers	1h	Understanding Applications	A
2	Introduction to Python	Questions & Answers	1h	Understanding Applications	B
3	Python Fundamentals	Questions & Answers	1h	Understanding Applications Skill based	C
4	Programming Exercise	Programs	5h	Applications Skill based	D
5	Project Work	Practical based	35hrs	Application oriented Knowledge based	E

Annexure:

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|-----------------|-------------------------------|--|
| <u>A</u> | Computer Fundamentals | Descriptive Questions 10nos |
| <u>B</u> | Introduction to Python | Descriptive Questions 10nos |
| <u>C</u> | Python Fundamentals | Descriptive Questions 12nos |
| <u>D</u> | Programming Exercise | Application based programs 11 nos |
| <u>E</u> | Project Work | 01 Application based project. |

TEACHER'S NAME: Mr Praveen M Jigajinni

SIGNATURE

Recommended By
Vice Principal

Approved By
Principal

SAINIK SCHOOL AMARAVATHINAGAR
SUMMER VACATION 2019-20
HOME WORK FOR CLASS XI (COMPUTER SCIENCE)

ANNEXURE A

COMPUTER FUNDAMENTALS

- 1) Write a note on history of computer
- 2) Define Computer languages.
- 3) How computer languages are classified.
- 5) What is software?
- 6) What are the types of softwares? Explain
- 7) Write a note on RAM
- 8) Explain Hard disk with its internal diagram
- 9) What is translator?
- 10) What are the types of translators? Explain in detail

ANNEXURE B

INTRODUCTION TO PYTHON

- 11) Define assignment statement.
- 12) List the statements in python.
- 13) Given the strings x='alpha' and y='beta' print the following string operations.
- 14) List some of the keywords in python.
- 15) Define Identifiers in Python
- 16) What is the comment statement in python?
- 17) Define variables in python.
- 18) Explain Input and output statements in python.
- 19) List the data types in python.
- 20) What are the operators in Python?

ANNEXURE C

PYTHON FUNDAMENTALS

- 21) Solve the mathematical expression $7/3 * 1.2 + 3/2$.
- 22) Define functions in python?
- 23) Explain the precedence of operators in python.
- 24) Write a simple program to add two numbers in python.
- 25) Write a simple program to convert KMPH to MPH in python.
- 26) Write a simple program in python to convert decimal number into binary, octal and hexadecimal number system in python.
- 27) Explain various types of operators used in Python
- 28) Explain Values & types supported in Python
- 29) Explain Interpreter & Interactive mode in Python
- 30) Write a program to Circulate value of N numbers
- 31) Explain about various statements in python
- 32) Write a python program to find Simple interest and Compound Interest

ANNEXURE D

PROGRAMMING EXERCISE

- 33) Write a PYTHON program to display Hello Sainik School AMARAVATHINAGAR.
- 34) Write a PYTHON program to display your school address.
- 35) Write a PYTHON program to display your permanent address.
- 36) Write a PYTHON program to display your details.
- 37) Write a PYTHON program to read two decimal numbers, then multiply them together and finally print out the result (in decimal)
- 38) Write a PYTHON program to find the area of a rectangle.
- 39) Write a PYTHON program to compute the area of square.
- 40) Write a PYTHON program that inputs a student's marks in three subject and prints the total and percentage marks.
- 42) Write a PYTHON program to find the square of entered number.
- 43) Write a PYTHON program to find the square root of entered number.

44) Write a PYTHON program which adds the sales tax in the price list of items and replace the price list with the new list for 5 items.

ANNEXURE E

PROJECT WORK

SURF THE INTERNET AND MAKE MINI PROJECT ON PYTHON PROGRAMMING LANGUAGE AND BRING PROJECT IN STICK FILE FURTHER THE PROGRAM AND PROJECT DOCUMENT BRING IT IN CD.

