SAINIK SCHOOL KORUKONDA SUMMER VACATION HOME WORK - 2023 CLASS: 11AB		
SUBJECT	**VACATION TASK ASSIGNED**	**TEACHER SIGNATURE**
English	Q & A of CBSE questions of 4 chapters 1) ~~The last lesson~~ 2) ~~Jan~~	
Maths	XI-B. 50 MCQs from first two chapters (UPSC previous Exam) Trigonometry Exercises 11th	
Chemistry	Pg. 39, Pg 43 Solved examples. Pg. 69 2.1 to 2.12 — 11th-A. Ch-1 Intext Questions & exercise que - 11th B	
Physics	NCERT Exercise & Intext questions of the topic / chapters Taught	
Biology	COMPLETE RECORD WORK	
Computer Science	Content uploaded on the school website	

SAINIK SCHOOL KORUKONDA

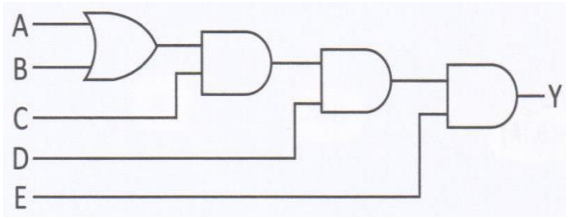
CLASS – XI COMPUTER SCIENCE

VACATION HOME WORK

1. Draw the truth tables for the following Boolean Expressions:
   a) F = A’ + B’ + C b) F = A + A’B c)F = (A.B’) + C

2. Why are the NAND and NOR logical gates called universal gates?

3. Derive the Boolean expression for the following logical gate.



4. State and prove De Morgan’s theorem algebraically.

5. Distinguish between algorithms and flowcharts.

6. Describe the different steps involved in problem solving.

7. Ayaan goes to the market to buy some fruits and vegetables. He has 500 rupees for shopping. From a shop, he purchases 2 kg apples, priced at Rs. 50 per kg, 1.5 kg mangoes priced at Rs. 35 per kg, 2.5 kg potatoes priced at Rs. 10 per kg, and 1 kg tomato priced at Rs. 15 per kg. He gives the currency of Rs. 500 to the shopkeeper.

   Write an algorithm to find the total amount that Ayaan has to pay to the shopkeeper. Also, display the amount the shopkeeper will return to Ayaan.

8. Write an algorithm and pseudocode to print the cube of numbers till N, where N is obtained by the user.