

Kendriya Vidyalayaa O.F. DumDum

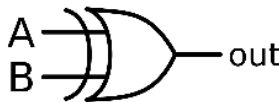
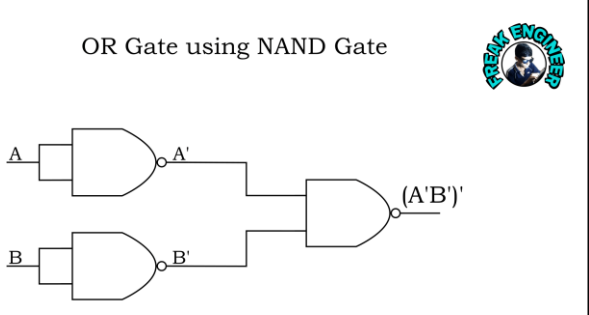

Periodic Test 1

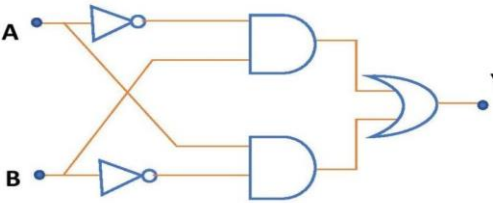
Class XI (Sub. Comp. Sc.)

Time 1: 30 hrs

M. Marks – 35

ANSWERS ARE MARKED IN RED

| Section – A (MCQ) 1 marks question | | |
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| 1 | Identify the type of token in each of the following i) "hello" ii) for ANS: I)LITERAL II)KEYWORD | 1+1 |
| 2 | Give one example of firmware. ANS:BIOS INSTRUCTION | 1 |
| 3 | Complete the octal series 56,57, _60_,_61_ | 1 |
| 4 | MS-Office is a - (a) Operating Software (c) Utility program (b) Programming language (d) Application Software | 1 |
| 5 | It is a _XOR_ Logical Gate  | 1 |
| 6 | Give one example of each i) Tautology $X+X'$ ii) fallacy $X.X'$ | 1+1 |
| 7 | Hexa-Decimal of $(215)_{10}$ is (a) D7 (b) 1B (c) D5 (d) D1 | 1 |
| 9 | RAM & ROM are PRIMARY/MAIN memory | 1 |
| 10 | Anti-Virus is an example of A) Application Software B) System Software C) Utility Software D) None of these | 1 |
| Section B (2 marks Question) Total Marks - 10 | | |
| 11 | OR USING NAND   | 2 |

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|-----------|---|-----|
| 12 | State and prove De-Morgan's theorems [Algebraic proof] FOR FULL MARKS BOTH THE THEOREM WITH ALGEBRAIC PROOF | 1+2 |
| 13 | State name of any four function of an Operating System? 1)ACTING AS AN INTERFACE BETWEEN COMPUTER AND USER 2)MEMORY MANAGEMENT 3)PROCESS MANAGEMENT 4)DEVICE MANAGEMENT OR PERIPHERAL MANAGEMENT | 2 |
| 14 | State any two difference between compiler and interpreter ? | 2 |
| 15 | Write Boolean expression of the given logical circuit.  $A'B+AB'$ | 2 |
| Section C | | |
| 16 | Convert the following into Hexa-Decimal (i) 177 (Octal) (ii) 110111 (binary) (iii) 189 (Decimal) | 3 |
| 17 | Write a program in python to take 2 numbers from user, and make a simple calculator to do the following operations i)add ii)subtract iii)multiply iv)division | 3 |
| 18 | Write any 2 Identifier forming rules. And also identify invalid identifiers with reason from the following list __,Break,roll no,if@,_2_4,hello2 ANY 2 1)IDENTIFIER MUST START WITH AN ALPHABET OR AN UNDERSCORE 2)KEYWORD CAN NOT BE USED AS IDENTIFIER 3)NO OTHER SPECIAL CHARACTER OTHER THAN _ IS ALLOWED roll no: as space is not allowed if@:as @ can not be used in an identifier | 2+2 |
| 19 | State the name and use of following operators(any 3) with example | 3 |

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|--|---|--|
| | <p>i)// ii)not iii)** iv)=</p> <p>//(floor division) with proper description and example</p> <p>Not(logical not operator) with proper description and example</p> <p>** (exponentiation) with proper description and example</p> <p>=(assignment) with proper description and example</p> | |
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