

1st Sessional of Digital Electronics for ECE 3rd Semester (GNDIT-2019)

Hello Electronics & Communication Engineers ☐

In this post, I have uploaded the 1st Sessional of Digital Electronics. This Question Paper is for the students of Diploma in Electronics & Communication Engineering, 3rd Semester. This Question Paper appeared in the Internal Examination of Guru Nanak Dev Institute of Technology, in 2019. I hope this Question Paper will help you with your studies ☐

MM-20

G.N.D.I.T. ROHINI SECTOR-15
1st SESSIONAL (ECE) (EVENING SHIFT)
SUBJECT-DE
DURATION-1:30 HRS

EDIPLOMA

Attempt any four questions (4*1 marks)

1. a) convert decimal to octal (7825)₁₀ to (????)₈
b) convert binary to decimal (11.0101)₂ to (????)₁₀
2. a) To convert decimal to binary (0.625)₁₀ to (????)₂
b) To decimal to hexadecimal (8763)₁₀ to (????)₁₆
3. To convert binary to grey code
a) 101101011 b) 111101011
4. To convert grey to binary code
a) 1011111011 b) 110001101
5. find out addition by using 2's complement
a) 111011+010101 b) 1000+0011

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Part-B

Attempt any three questions (3*2 marks)

1. Construct following function using logic gate?
 $Y = A.B + C.D + E.F$
2. Construct AND,OR ,NOT,NOR using universal gate NAND ?
3. Construct NAND and EX-OR gate using universal gate NOR ?
4. Construct the logic diagram for following expression
 $Y = (A+B).C + D.E$

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EDIPLOMA

Attempt any two questions (2*5 marks)

1. Simplify and implement the following Boolean expression.
 $Y = \bar{A} \bar{B} \bar{C} \bar{D} + A \bar{B} \bar{C} \bar{D} + ABCD + A \bar{B} \bar{C} D$
2. Design full adder with truth table and K-map?

Protected with trial version of Visual Watermark. Full version doesn't put this mark.

Help your classmates by sharing this post with them ☐