



Introduction to Computing (CS101)

Assignment # 01

Spring 2022

Total marks = 20

Deadline Date

December 5, 2022

Please carefully read the following instructions before attempting the assignment.

RULES FOR MARKING

It should be clear that your assignment would not get any credit if:

- The assignment is submitted after the due date.
- The submitted assignment does not open or the file is corrupt.
- Strict action will be taken if the submitted solution is copied from any other student or the internet.

You should consult the recommended books to clarify your concepts as handouts are not sufficient.

You are supposed to submit your assignment in **Doc or Docx** format.

Any other formats like scan images, PDF, ZIP, RAR, PPT, BMP, etc. will not be accepted.

Objectives:

- To learn about the ASCII encoding system.
- To learn about the memory units.
- To understand the basic concept of Boolean Logical Operations.

NOTE

This assignment covers course contents from lesson no. 1 to 38 (first three weeks).

No assignment will be accepted after the due date via email in any case (whether it is the case of load shedding or internet malfunctioning etc.). Hence refrain from uploading assignments in the last hour of the deadline. It is recommended to upload the solution file at least two days before its closing date.

If you people find any mistake or confusion in the assignment (Question statement), please consult with your instructor before the deadline. After the deadline, no queries will be entertained in this regard.

For any query, feel free to email me at:

CS101@vu.edu.pk

Question No. 01**Marks (6)**

Divide the following string of binary numbers into 8-bit binary numbers and then convert each 8-bit binary number into equivalent text by using the **ASCII** code.

0101010101101110011010010111010001111001

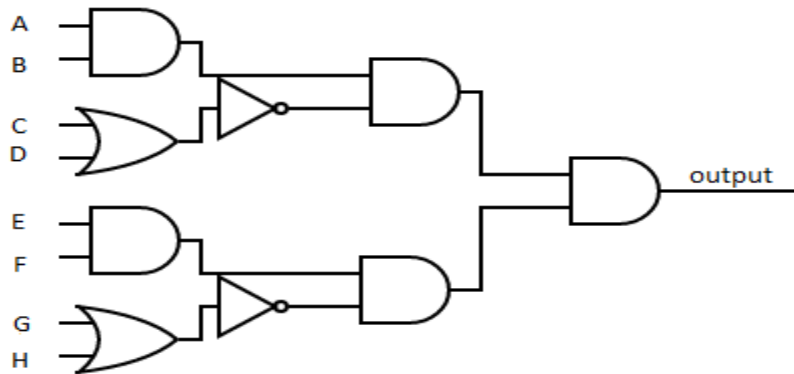
Question No. 02**Marks (6)**

- (a) Write the name of the smallest unit of memory.
 (b) Fill in the blanks by performing memory unit conversions.

5 Bytes = _____ bits
 10 Kilo Bytes (KB) = _____ Bytes
 15 Mega Bytes (MB) = _____ KB
 20 Giga Bytes (GB) = _____ MB
 25 Tera Bytes (TB) = _____ GB

Question No. 03**Marks (8)**

The following circuit diagram contains 9 gates and 8 inputs (A, B, C, D, E, F, G, and H). You need to carefully observe the diagram and determine the inputs to produce **1 (One)** at the output.



A	?
B	?
C	?
D	?
E	?
F	?
G	?
H	?

Best of Luck