



كلية تكنولوجيا الصناعة والطاقة



Information Technology Department
Second Year



جامعة برج العرب التكنولوجية
BORG AL ARAB TECHNOLOGICAL UNIVERSITY

جامعه برج العرب التكنولوجيه

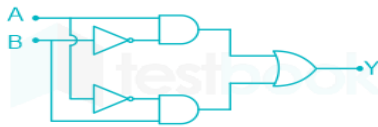
Course: Digital Engineering
Semester: 1st term 2024/2025

Lecturers: Prof. Ossama Elnahas Dr. Dina Abdelhafiz

Introduction to Logic Gates

Choose the correct answer:

Q1: In the combination of the following gates, the output Y can be written in terms of the inputs A and B as:



1. $\bar{A} \cdot \bar{B}$
2. $A \cdot \bar{B} + \bar{A} \cdot B$
3. $\bar{A} + \bar{B}$
4. More than one of the above

Q2: The logic circuit below is equivalent to:



- 1.
- 2.
- 3.
- 4.

Q3: The output Y of the given logic gate is similar to the output of an/a



1. NAND gate
2. NOR gate
3. OR gate
4. AND gate