

4.4 Digital Electronics

Question Paper

Level	IGCSE
Subject	Physics (0625)
Exam Board	Cambridge International Examinations (CIE)
Topic	Electricity and Magnetism
Sub-Topic	4.4 Digital Electronics (Extended)
Booklet	Question Paper

Time Allowed: 3 minutes

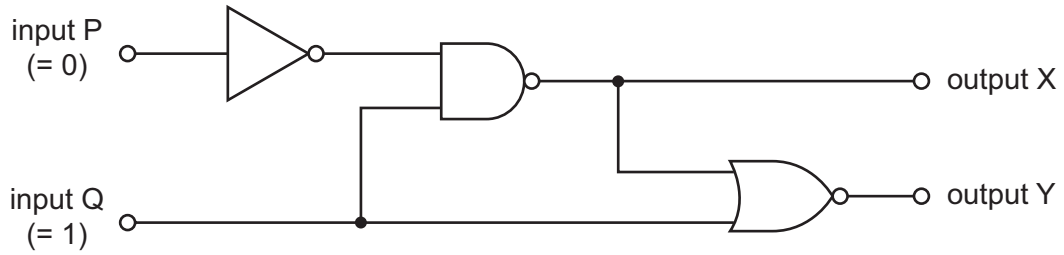
Score: / 2

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	60%	45%	35%	25%	<25%

1 The diagram shows a combination of logic gates.

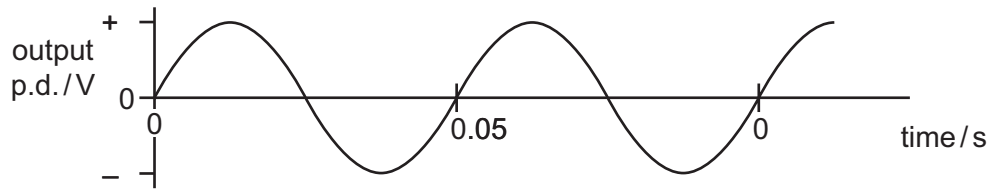


Input P is at a logic state 0 (low) and input Q is at a logic state 1 (high).

What are the logic states at output X and at output Y?

	output X	output Y
A	0	0
B	0	1
C	1	0
D	1	1

- 2 The graph shows the output of an a.c. generator. The coil in the generator rotates 20 times in one second.



The speed of rotation of the coil steadily increases.

Which graph best shows how the output changes?

