



Muchammad Daniyal Kautsar ▾



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**Started on** Wednesday, 8 September 2021, 9:08 AM

**State** Finished

**Completed on** Wednesday, 8 September 2021, 9:27 AM

**Time taken** 19 mins 20 secs

**Marks** 10.00/10.00

**Grade** 100.00 out of 100.00

### Question 1

Correct Mark 1.67 out of 1.67

Representasi fungsi  $F = A'B' + C' + D' + E'$  yang tepat adalah

- ☐ a.  $F' = ABCDE$
- ☐ b.  $F' = AB(C+D+E)$
- ☐ c.  $F' = A+B+C+D+E$
- ☐ d.  $F' = AB+C'+D'+E'$
- ☒ e.  $F' = (A+B)CDE$



Your answer is correct.

The correct answer is:

$F' = (A+B)CDE$



**Question 2**

Correct

Mark 1.67 out of 1.67

Representasi ekvivalen dari Boolean expression  $A' + 1$  adalah

- ☐ a.  $A'$
- ☐ b.  $0$
- ☐ c.  $A$
- ☒ d.  $1$



Your answer is correct.

The correct answer is:

$1$

**Question 3**

Correct

Mark 1.66 out of 1.66

Ekspresi Boolean  $(A+B+C)(D+E)' + (A+B+C)(D+E)$  yang paling sederhana adalah

- ☐ a.  $D + E$
- ☒ b.  $A + B + C$
- ☐ c.  $A'B'C'$
- ☐ d.  $D'E'$
- ☐ e. Semua jawaban salah



Your answer is correct.

The correct answer is:

$A + B + C$



**Question 4**

Correct

Mark 1.67 out of 1.67

Manakah relation yang merepresentasikan dual dari  $x + x'y = x + y$

- ☐ a.  $x * x' + y = xy$
- ☐ b.  $x'(xy') = x'y'$
- ☐ c.  $x'(x + y') = x'y'$
- ☒ d.  $x(x' + y) = xy$
- ☐ e.  $x(x'y) = xy$



Your answer is correct.

The correct answer is:

$$x(x' + y) = xy$$

**Question 5**

Correct

Mark 1.66 out of 1.66

Representasi dual dari ekspresi  $A + 1 = 1$  adalah

- ☒ a.  $A * 0 = 0$
- ☐ b.  $A * 1 = 1$
- ☐ c.  $A * A = A$
- ☐ d.  $A * 1 = 1$
- ☐ e.  $A + 0 = 0$



Your answer is correct.

The correct answer is:

$$A * 0 = 0$$



**Question 6**

Correct

Mark 1.67 out of 1.67

Simplifikasi Boolean expression  $AB + ABC + ABCD + ABCDE + ABCDEF$  menghasilkan

- ☐ a.  $AB + CD + EF$
- ☒ b.  $AB$
- ☐ c.  $ABCDEF$
- ☐ d.  $A + B + C + D + E + F$
- ☐ e.  $A + B(C + D(E + F))$



Your answer is correct.

The correct answer is:

$AB$

