Question 1
Correct
Mark 2.00 out of 2.00
F Flag question

Consider the following formula which is in CNF Form

$$(a \lor b \lor \neg b) \land (a \lor b \lor \neg c) \land (a \lor c \lor \neg b) \land (a \lor c \lor \neg c)$$

What is the minimum number of Disjunctive and conjunctive operators needed for the corresponding DNF?

🗆 a. None

☑ b. 2, 2

c. 5,5

□ d. 3,5

e. 2, 4

☐ f. 5, 3

g. 4,2

☐ h. 3,3

Your answer is correct.

The correct answer is:

2.2

Question 2
Incorrect
Mark 0.00 out of 2.00

Flag question

Consider the following formula

$$(a \lor b \lor c) \Rightarrow ((a \lor b) \land (a \lor c))$$

What is the minimum number of Disjunctive and conjunctive operators needed for the corresponding DNF?

a. 4,3

☑ b. 3,3

□ c. 5,5

d. None

□ e. 3,6

☐ f. 3,4

g. 2,3 h. 3,2

Your answer is incorrect.

The correct answer is:

None

Question **3**Correct
Mark 2.00 out of 2.00
P Flag question

## Which of the following answers are true about below recurrence relations

$$H_n = 2H_{n-1} + 1$$

$$f_n = f_{n-1} + f_{n-2}$$

$$a_n = a_{n-1} + a_{n-2}^2$$

$$P_n = (1.11)P_{n-1}$$

- a. A,C, D are not linear
- b. A not homogenous, B,D are homogenous
- $\ \square$  c. A homogenous, B,D are not homogenous
- ☐ d. A,B not homogenous, C,D are homogenous
- e. NONE
- f. A,B, D are linear
- g. A,C, D are linear
- ☐ h. A,C homogenous, B,D are NOT homogenous

The correct answers are: A.B., D are linear,

A not homogenous, B,D are homogenous

Question <b>4</b> Correct	number of formulas we can generate using 3 propositional variables	
Mark 1.00 out of 1.00 ♥ Flag question	<ul> <li>a. 243</li> <li>b. 27</li> <li>c. infinite</li> <li>d. 64</li> <li>e. 81</li> </ul> Your answer is correct.	~
	The correct answer is: infinite	
Question <b>5</b> Correct Mark 1.00 out of 1.00 P Flag question	what is the max number of Disjunctive and Conjunctive operators are required for any PDNF corresponding to formula consisting of three propositional variables  a. 25 b. 64 c. 22 d. 23 e. 32 f. 24 g. 27 h. 38	*
	Your answer is correct. The correct answer is: 23	