TUGAS V

Teori Modul

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LATIHAN JAAL

(1.) Dik.
$$\mathbb{Z}_{12}$$
, \mathbb{Z}_{1} model

 $M_{1} = \{0, \overline{3}, \overline{6}, \overline{9}\}$
 $M_{2} = \{0, \overline{2}, \overline{4}, \overline{6}, \overline{8}, \overline{10}\}$
 $M_{3} = \{0, \overline{4}, \overline{8}\}$

Penley apaken Z12 = M, A N2 A N3 ??

Peryelyala:

Jadi HIN(H2+H3) + EB3

:. Z12 + N, 10 N2 10 N3

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- ① DIK \mathbb{Z}_{12} 21- modul. $M_1 = \{0, \overline{3}, \overline{1}, \overline{9}\}$; $M_2 = \{0, \overline{4}, \overline{8}\}$ adult submodul -submodul di \mathbb{Z}_{12} .

 Perkihatkan $\mathbb{Z}_{12} = M_1 \oplus M_2$ Penyelyaian:

Eugh (Harrish, H C.

- (ii) MININ2 = & 5, 5, 5 9 0 0 5 5, 4, 8 4
 - ~ 7/12 = N, & N2

Dipindai dengan CamScanner

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(3) Pik 2/16 21-modul

N1 = { 0,8}

N2 = { 0, 7,8,72}

A3 = { 0, 7,8,72}

A3 = { 0, 2, 7,6,8,70,72,14}

adalah submodul - submodul dari 2/6.

Perliha Ham 2/16 = N, B N2 B N3

Perydyajas:

- - :. 716 + H, DH2 DH3

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(F) Z₂₀ Z - model

N₁ = { 0 , 5 , 10 , 15 }

N₂ = { 0 , 4 , 8 , 17 , 16 }

adeleh submodel - submodel daes 7/20

Tunjukka Z₂₀ = N₁ B N₂

longelyaja :

- (i) N, +N2 = &0, 5, 10, 15 3+ &0, 4, 12, 16 y

 = &0, 4, 8, 12, 16, 5, 9, 13, 17, 7,

 10, 14, 18, 2, 6, 15, 19, 3, 7, 113

 = &0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10,

 11, 12, 13, 14, 15, 16, 17, 18, 19.

 = 72 20

 (ii) N, NN2 = &0, 5, 10, 153 N & 0, 4, 8, 12, 76 y

 = &0 y
- .. Z₂₀ = N, ⊕N2