

Gst= 4+8+8+8+8= 47 So the best BDD order is nran The ROBOD is: Nr NE NE.

1/24.4: "\*

$$\rightarrow F = (B_0 + \overline{Z})(\overline{B}_0 + \overline{Z}) \rightarrow \begin{cases} B_0 = 1 \rightarrow Z = 1 \\ B_0 = 0 \rightarrow Z = 0 \end{cases}$$

$$\rightarrow F = (B, +\overline{z})(\overline{B}, +\overline{z}) \rightarrow \begin{cases} B_1 = 1 \rightarrow z = 1 \\ B_1 = 0 \rightarrow z = 0 \end{cases}$$

$$\longrightarrow F = (\overline{B}, +\overline{Z})(B, +Z) \rightarrow \begin{cases} B, =1 \rightarrow Z = 0 \\ B, =0 \rightarrow Z = 1 \end{cases}$$

State 4) 
$$X=0$$
,  $S_1=1$ ,  $S_0=1 \rightarrow G=0$ 

$$F = (B_r + Z)(\overline{B}_r + Z) \rightarrow \begin{cases} B_r = 1 \rightarrow Z = 1 \\ B_r = 0 \rightarrow Z = 0 \end{cases}$$

$$\rightarrow F = z(B_0 + \overline{z})(\overline{B}_0 + \overline{z}) \rightarrow z = 1 \rightarrow B_0 = 1$$

$$\rightarrow F = z(\bar{B}_1 + \bar{z})(B_1 + z) \rightarrow z = 1 \rightarrow B_1 = 0$$

state 8) 
$$X=1$$
,  $S_{i=1}$ ,  $S_{o}=1 \rightarrow G=1$ 

$$\rightarrow F=Z(B_r+Z)(\overline{B}_r+Z) \rightarrow Z=1 \rightarrow B_r=1$$

(ii - io

12

$$F = (\beta_1 + \overline{z})(\overline{\beta}_1 + \overline{z}) \rightarrow \begin{cases} \beta_1 = 1 \rightarrow z = 1 \\ \beta_1 = 0 \rightarrow z = 0 \end{cases}$$

$$\rightarrow F = (\overline{B}_1 + \overline{Z})(B_1 + Z) \rightarrow \begin{cases} B_1 = 1 \rightarrow Z = 0 \\ B_1 = 0 \rightarrow Z = 1 \end{cases}$$

$$F = (B_r + \overline{Z})(\overline{B}_r + \overline{Z}) \rightarrow \begin{cases} B_r = 1 \rightarrow Z = 1 \\ B_r = 0 \rightarrow Z = 0 \end{cases}$$

$$\rightarrow F = \overline{z}(B_1 + \overline{z})(\overline{B}_1 + \overline{z}) \rightarrow Z = 0 \rightarrow B_1 = 0$$

State Z) X=1,  $S_{i=1}$ ,  $S_{i=0} \rightarrow G=0$  $\rightarrow F=\overline{z}(\overline{B}_{i}+\overline{z})(B_{i}+z) \rightarrow z=0 \rightarrow B_{i=1}$  conflict!  $\frac{A}{A} = \overline{A} \overline{B} \overline{C} \overline{D} + \overline{A} \overline{C} \overline{D} + \overline{A}$ 

cst = +++++ ++ = 1V

00 7(91 0010-0011. 0 220 8100. 20,000 noglo 00 1 21 ONNO 

	0	1.	۲	. 4	E	1-4	1	10	(, )(	118
009171	X	X	X	X						
0220	X		X		X	X				-
Nono	X		X			1 2	X	X		
90191			X	X				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N	
1911									X	X

