

Nama : Johanes Yogtan Wicaksono Raharja

NIM : 215314105

1. D
2. B
3. D
4. C
5. C
6. C
7. B
8. B
9. A
10. C
11. B
12. A
13. B
14. C
15. A
16. B
17. C
18. B
19. D
20. C
21. A
22. A
23. C
24. C
25. B

$$\begin{aligned}
 \textcircled{1} \quad P &\rightarrow x^4 + x^3 + 1 & M &\rightarrow 10010011011 \\
 &\rightarrow x^4 x^3 x^2 x^1 x^0 & &\rightarrow 10010011011 \ 0000 \\
 &\rightarrow 1 \ 0 \ 0 \ 0 \ 1
 \end{aligned}$$

$$\begin{array}{r}
 P \rightarrow 11001 \overline{) 100100110110000} \\
 \underline{11001} \\
 1011 \\
 \underline{11001} \\
 1111 \\
 \underline{11001} \\
 11010 \\
 \underline{11001} \\
 01111 \\
 \underline{11001} \\
 10110 \\
 \underline{11001} \\
 11110 \\
 \underline{11001} \\
 11100 \\
 \underline{11001} \\
 1010 \rightarrow R
 \end{array}$$

②

$$P \rightarrow x^4 + x^3 + 1$$

$$T \rightarrow x^{14} + x^{10} + 1$$

$$\begin{array}{r}
 x^{10} + x^9 + x^8 + x^7 + x^6 + x^5 + x^4 + x^3 + x^2 + x + 1 \\
 x^4 + x^3 + 1 \overline{) x^{14} + x^{10} + 1} \\
 \underline{x^{14} + x^{13} + x^{10}} \\
 x^9 + x^{12} + x^9 \\
 \underline{x^{13} + x^{12} + x^9} \\
 x^{12} + x^{11} + x^9 \\
 \underline{x^{12} + x^{11} + x^9} \\
 x^{11} \\
 \underline{x^{11} + x^{10} + x^7} \\
 x^{10} + x^7 \\
 \underline{x^{10} + x^9 + x^6} \\
 x^9 + x^7 + x^4 \\
 \underline{x^9 + x^8 + x^5} \\
 x^8 + x^7 + x^6 + x^5 \\
 \underline{x^8 + x^7 + x^4} \\
 x^6 + x^5 + x^4 \\
 \underline{x^6 + x^5 + x^2} \\
 x^4 + x^2 \\
 \underline{x^4 + x^3 + x} \\
 x^3 + x^2 + x
 \end{array}$$

& era tidak bisa
 dilihat karena hanya
 tidak habis