

### Solutions to the self-test objective type questions

1. True. Yes, it may generate. But it cannot guarantee!
2. False
3. False
4. True
5.  $R \max\{M-k, k\} + C(M-k)k$  {refer to your detailed notes}
6. True
7. False
8. True (set  $b = k-1$ )
9. False
10. Lower-order
11. Refer: Chapter 2
12. True
13. Refer: Chapter 2 Slides
14. Draw the diagram, please!
15. False
16. True
17. False
18. (a)
19. False
20. RISC has more complex decoding mechanism although it uses register files.  
Plus, management of windows functions demands complex mechanisms to be incorporated in the design.
21.  $E_k$  tends to 1 as  $n$  tends to infinity
22.  $nf(k+1) + (1-f)n$
23. # of input switches; # of output switches
24. De-coupled CISC/RISC
25. False
26.  $mn$  (see the book page 318)
27. (5)
28. CRCW type
29. (4)
30.  $m$ , where  $m$  is the length of the CV
31. True
32. True
33. (4)
34. False (not necessarily true always)
35.  $\log_2 M$
36. True
37. True
38. True
39. True
40. False
41. False

- 42. True
- 43. False
- 44. True
- 45. False