# **COMP3506 2007 FINAL EXAM**

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**Answers**

1. e

2. b ->d

3. d

4. d **Disagree - the answer is a. A hash code takes an arbitrary object and converts it to an integer, the compression function takes an arbitrary integer and converts it into an integer in the range 0...N-1. Answers b and c are false as they have mixed around these definitions. (I agree with a - mdn) also agreed, its definitely a [BO]**

5. a ->e

6. c

7. c

8. c->e

9. c

10. d

11. c

12. a

13. e->b (assuming that the ADT is a stack and that you ignore the “IStack” naming convention then I think ‘b’ is the correct answer) - (agree with B - mdn)

14. b

15. e

16. a

17. e

18. a

19. c

20. b

21. a

22. b

23. b

24. d (probably not, should be e) - mdn

25. a

26. b

27. a or some people say c (I think a, as a vector can use the backward references when deleting - mdn)

28. c

29. b

30. d

31. e->c

32. b ->b, c and d? - I think e (a circularly index array is O(1) I think)

33. b

34. b

35. d

36. c

37. d

38. b - This should be e? Sure, it’s rank 6 but question asks for index, which should be 5? [BO]

39. b

40. a