



THE UNIVERSITY OF MANITOBA

Tues October 28, 1997

Midterm EXAMINATION

THE UNIVERSITY OF MANITOBA

DEPARTMENT OF CHEMISTRY

Winnipeg, Manitoba

Paper NO: _____

PAGE NO.: _____ of _____

TIME: 2 HOURS 30 MIN

DEPARTMENT & COURSE NUMBER: Chemistry 2.277 & Microbiology 60.277

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EXAMINATION: Elements of Biochemistry

EXAMINERS: Drs. F. Hruska & A. Scott

ANSWERS: 2.277/60.277 MIDTERM OCT 28, 1997

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|-------|-------|-------|-------|-------|
| 1. E | 11. D | 21. B | 31. C | 41. B |
| 2. C | 12. C | 22. E | 32. E | 42. C |
| 3. C | 13. B | 23. A | 33. E | 43. A |
| 4. E | 14. E | 24. A | 34. A | 44. B |
| 5. C | 15. E | 25. C | 35. B | 45. C |
| 6. B | 16. D | 26. B | 36. B | 46. B |
| 7. B | 17. A | 27. C | 37. A | 47. A |
| 8. B | 18. E | 28. D | 38. C | 48. D |
| 9. A | 19. B | 29. D | 39. C | 49. A |
| 10. D | 20. E | 30. B | 40. B | 50. B |

A: $1 + 1 + 2 + 2 = 6 + 3 = 9$

B: $3 + 2 + 3 + 3 = 11 + 4 = 15$

C: $3 + 1 + 2 + 3 = 9 + 2 = 12$

D: $1 + 2 + 2 + 0 = 5 + 1 = 6$

E: $2 + 4 + 1 + 2 = 9 + 0 = 8$

$10 + 10 + 10 + 10 = 40 + 10$