

**Biology 2201
Common Exam
Answer Sheet**

Part 1: Multiple Choice

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|-----|---|-----|---|-----|---|
| 1. | B | 26. | D | 51. | D |
| 2. | A | 27. | C | 52. | D |
| 3. | B | 28. | D | 53. | C |
| 4. | B | 29. | B | 54. | B |
| 5. | B | 30. | A | 55. | D |
| 6. | A | 31. | A | 56. | C |
| 7. | C | 32. | C | 57. | A |
| 8. | B | 33. | D | 58. | D |
| 9. | B | 34. | A | 59. | A |
| 10. | A | 35. | A | 60. | C |
| 11. | A | 36. | A | 61. | D |
| 12. | A | 37. | B | 62. | A |
| 13. | B | 38. | C | 63. | B |
| 14. | A | 39. | D | 64. | C |
| 15. | B | 40. | D | 65. | D |
| 16. | C | 41. | A | 66. | B |
| 17. | B | 42. | D | 67. | D |
| 18. | B | 43. | D | 68. | A |
| 19. | D | 44. | D | 69. | D |
| 20. | A | 45. | A | 70. | C |
| 21. | A | 46. | B | 71. | C |
| 22. | C | 47. | A | 72. | B |
| 23. | A | 48. | C | 73. | B |
| 24. | C | 49. | C | 74. | A |
| 25. | A | 50. | B | 75. | C |

Part 2: Questions

- 76a
1. Nucleolus which manufactures ribosomes, therefore problem with protein Production
 2. Ribosome – fewer ribosomes = less protein production
- b. Photosynthesis (plants) – produces glucose and oxygen, produces energy for the cell.
Respiration – uses glucose and oxygen, releases energy for use by cell
- c. Hodgkin's disease = Cancer. Answers will vary
- 77a.
- Vertebrate are derived from a notochord, therefore all vertebrates must be chordates. (1 mark)
 - Sea squirts and Amphioxus (lanquets) are examples of organisms with a notochord but do not develop vertebrae, therefore they are not vertebrates but remain chordates. (1 mark)
- b.
- NO
 - Prokaryotic = bacterial
 - Microscopic = bacterial
 - The combination of characteristics point to a bacterium, not something new.
- c.
- This is similar to the amphibian and some reptile hearts (1marks)
 - The mammal will have mixing of oxygenated and deoxygenated blood. (1 mark), therefore not getting enough oxygen and nutrients (1 marks).
- 78 a For: It could save lives
Against: could lead to stealing of organs and murdering of people
- ** answers may vary for this question**
- b It would affect water absorption.
It would affect mineral/vitamin absorption – possible deficiency
It would affect bacterial breakdown of nutrients
- c - breast feeding prolongs passive immunity and increases the breast fed child's ability to combat disease
- d Body needs a consistent level of oxygen. When little oxygen is available, the body increases the number of red blood cells to maintain this oxygen level to the tissues. At sea level, where normal oxygen levels are available, the increased number of RBC's allows for the delivery of more oxygen. This leads to increased performance/endurance.
- 79 a Pro - slow down pop growth
Less demand for natural resources
Cons - ethically wrong to take away freedom of choice
Conflict with religious beliefs
- b. - stays the same due to adequate resources

- May increase if limiting factors are reduced
- May decrease due to an increase in limiting factors and environmental resistance