

**Biology 2201
Common Exam
Answer Sheet**

Part 1: Multiple Choice

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

- they have a wide variety of adaptations for feeding
- most insects are small in size so they can hide and inhabit a variety of places
- many insects move very quickly
- bees have hierarchical social systems
- life cycle

- b.
- NO
 - Prokaryotic = bacterial
 - Microscopic = bacterial
 - The combination of characteristics point to a bacterium, not something new.

- c. Reptiles
- blood that is oxygenated from the lungs mixes with the de-oxygenated blood from general body circulation
 - lower oxygen levels reduces activities for these organisms

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