

Golden Gopher  
Microbe Mission Div. B  
Answer Sheet

**Part A: Multiple Choice** (1 pt each - 20 pts total)

- |      |       |       |       |       |
|------|-------|-------|-------|-------|
| 1. D | 5. A  | 9. C  | 13. D | 17. C |
| 2. A | 6. BD | 10. A | 14. A | 18. D |
| 3. C | 7. C  | 11. A | 15. C | 19. C |
| 4. B | 8. C  | 12. B | 16. B | 20. C |

**Part B: Matching/Ordering/Labeling** (75 pts)

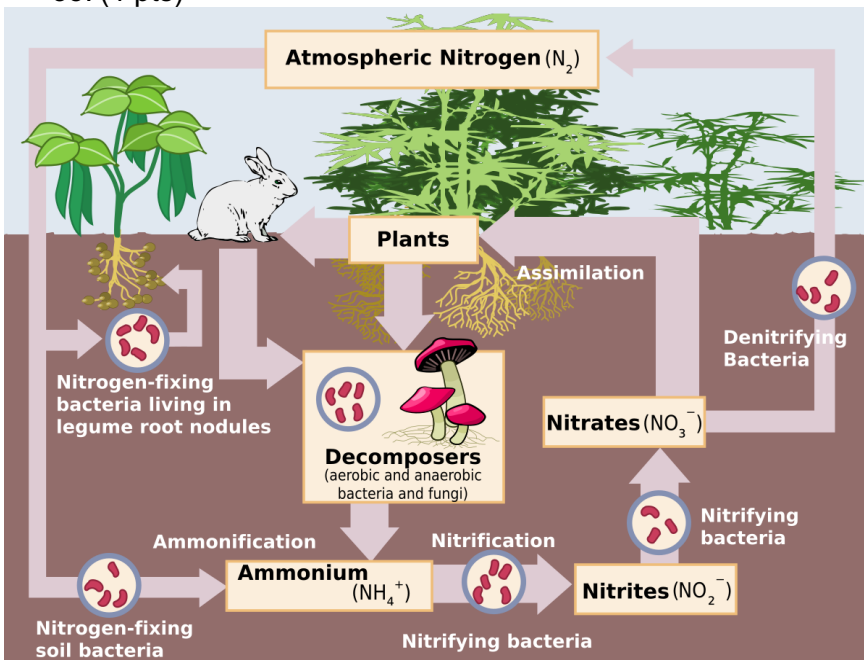
Questions 21 - 32: (1 pt each)

- |       |                          |
|-------|--------------------------|
| 21. J | 27. Trichinosis          |
| 22. I | 28. White nose syndrome  |
| 23. G | 29. Peptic ulcer disease |
| 24. L | 30. Anthrax              |
| 25. H | 31. MRSA                 |
| 26. K | 32. Strep Throat         |

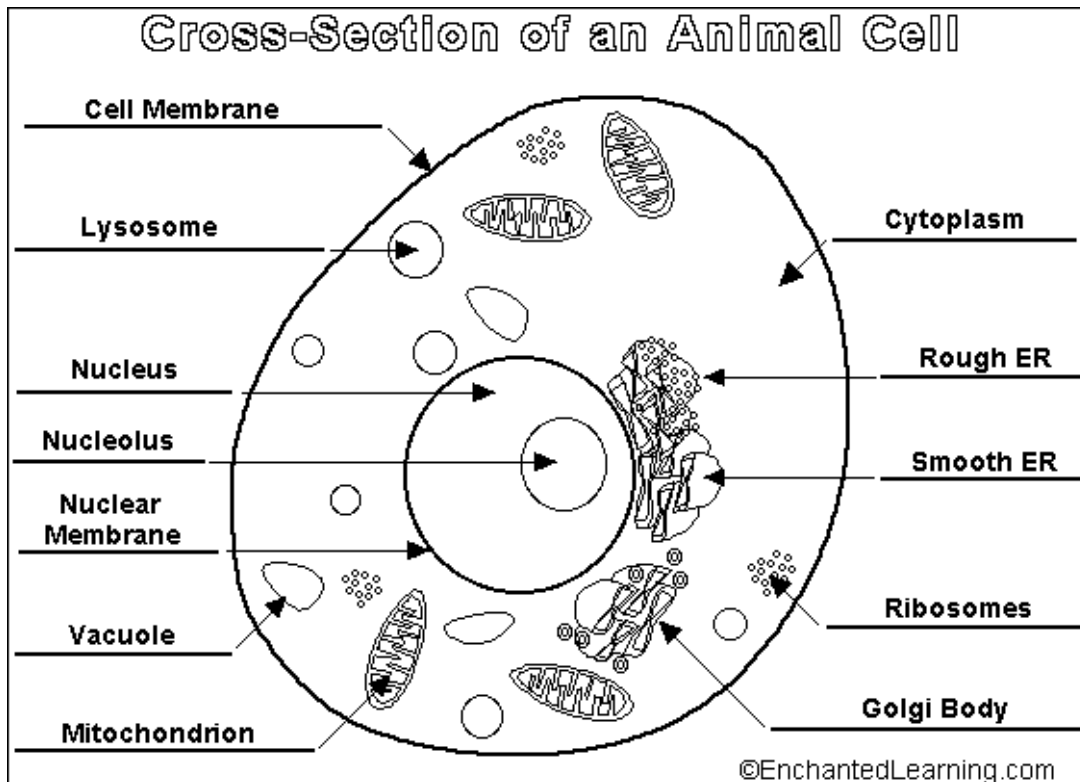
33. E, B, J, C, H, D, F, A, G, I (10 pts)

34. BACDEF (6 pts)

35. (4 pts)



36. (13 pts) --- H is centrosome



37. (½ point per filled in box - total 6 pts)

	Prokaryotes	Eukaryotes
DNA	<b>DNA is naked</b>	DNA bound to protein
DNA	DNA is circular	<b>Linear DNA</b>
Introns (Has or doesn't have)	<b>Usually doesn't</b>	<b>Usually does</b>
Membrane-bound Organelles (Has or doesn't have)	<b>Doesn't have</b>	<b>Has</b>
Nucleus (Has or doesn't have)	<b>Doesn't have</b>	<b>Has</b>
Ribosomes	70S Ribosomes	<b>80S Ribosome</b>
Reproduction	<b>Binary Fission Or Asexual</b>	<b>Mitosis/Meiosis Or Sexual</b>
Average size	<b>1-5 µm</b>	~10-100 µm

Question 38 - 50: (1 pt each)

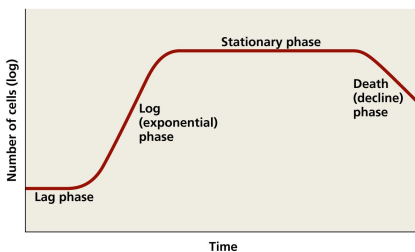
- |       |       |       |       |
|-------|-------|-------|-------|
| 38. L | 41. M | 44. I | 47. C |
| 39. B | 42. J | 45. A | 48. H |
| 40. G | 43. K | 46. D | 49. E |
|       |       |       | 50. F |

Questions 51 - 60: (1 pt per blank)

51. Yeast (½ point for fungi) and Bacteria
52. Bacteria
53. Archaea
54. Algae (½ point for protist)
55. Viruses
56. Algae (½ point for protist)
57. Yeast (½ point for fungi)
58. Diatoms (½ point for protist)
59. Bacteria
60. Yeast (½ point for fungi)

**Part C: Short Answer** (21 pts)

61. (2 pts total) 0.5mm (1 pt) = 500 micrometers (1 pt)
62. (2 pts total - 1 for viroid definition, 1 for difference - Tiebreaker #2) Viroids are solely composed of a short strand of circular, single-stranded RNA. They are different because they do not have a protein coat. All viroids are plant pathogens while viruses can infect all all types of life forms.
63. (1 pt) 5000 colonies (cfu)
64. (1 pt) Hemocytometer
65. (1 pt) 55-65 nm
66. (2 pts) Virus
67. (2 pts - Tiebreaker #1) *Nitrosomonas* or *Nitrobacter*
68. (2 pts) Nitrogen fixation
69. (2 pts) 3 mg/ml
70. (6 pts)



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Limited food supply, pollution of environment by metabolic wastes, limited space