Microbe Mission MIT Answer Key:

	- 11-1-11
1. 200	44.Cell Wall
2. 50	45.Gram Negative
3. 10	46.Myobacterium tuberculosis, Legionella
4. 0.4	pneumophila (2 points)
5. 5	 Half Credit for disease names TB,
6. 3.3 *10^6	Legionella
7. 7*10^4	47.Water
8. 2*10^-3	48.Air
9. 1.337*10^4	49.Gram positive
10.960 μm	50.True
11.192 μm	51.Aerobic
12. Algae or Protist	52.Artificial sweeteners, Animal Feed.
13.C	53. Fermentation
14.A	54.Lactic Acid
15.D	55.Pennicilium
16.A	56.CO ₂
17.B	57. Curd
18.D	58.A
19.C	59.A
20.B	60.C
21.B	61.C
22.A	62.B
23.A	63.A
24.D	64.B/D
25.C	65.D
26.Course Focus	66.D
27.Objective Lens	67.A
28.Contrast	68.A
29.Part 7	69.A
30.Part 3, 4, or 5	70.D
31.72 Hours	71.Adsorption/Attachment
32.4000	72.Penetration
33.40-42 bac/hr	73.Replication (Biosynthesis)
34.~5000 bacteria	74.Assembly (Maturation
	75.Release (budding)
35.Lag	76.CD4+ T cells
36.Stationary	•
37.Log	77.Yes
38.Stationary	78. Primates
39.Log	79.Antibodies to HIV, Viral RNA detection,
4o.Death	CD4 T cell Count (3 points)
41.Pink	80.Blood Transfusion
42.Destaining with Alcohol	81.Surface Pili
43.Outer Membrane	82.Cytokine blockers
71119	

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83. Kills Macrophages
                                                  122. Pfemp genes/proteins can switch during
                                                     the course of infection
84.Extracellular
85.Extracellular
                                                  123.Red Blood cells
86.Extracellular
                                                  124.Merozoite
87.Extracellular
                                                  125.IgA
88.Y
                                                  126. Takes time to cross species barrier. The
89.Y
                                                     PrPSc appears to alter the protein structure
                                                     of the native PrPc to produce more of the
90.N
                                                     mutant PrPSc This slow "infectious"
91.Negative
92.Positive
                                                     process takes many years for the alteration
                                                     structure (replication). (3 points) (one first
93.Positive
94.Humoral
                                                     each part)
95.Cell mediated
                                                  127.template-assisted replication
96.Tuberculosis
                                                  128.C
97.No
                                                  129.G
98.BCG Vaccine, False Positive (2 points)
                                                  130.A
99.MRSA
100. Making sure the MRSA is not Antibiotic
                                                  Five Tiebreakers Total (In order)
  resistant to the antibiotics you prescribe (2
                                                  40, 57, 78, 125, 129
  points)
                                                  Total Points: 137
101.Intracellular
102.Y
103.Y
104.Fast
105.Slow
106.F
107.F
108.T
109.T
110.F
111.T
112.F
113.T
114.T
115.T
116. Respiratory
117. Contact with Bird/Bat Droppings
118. Inhalation of Spores
119. Lung Biopsy
120.Antifungals
121.pathogen changes its (surface) proteins/
  antigens either by gene switching or
  mutation to a form which can no longer be
  recognized by the immune system (2
  points) (one for first and second part)
                                           7mgcjh85
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