Team Number:	School Name:	KEY





# Microbe Mission B 2017 National Cathedral Competition

	Place team sticker from Evolution over this box. Check wrist	7
Team #	and school	
Team/School Name:	KEYKEY	KEY
Student Names (First & La	ast) PRINT SCIBLY	
1		
2		
<b>~</b> `	7	
Total Points Possible.	Total Points E	arned:
Tie Breaker (2.g. +0.1, -	Fo.2, etc.):	Rank:

PLAGE ALL ANSWERS ON THE ANSWER SHEET

NO CELL SHONES

WAIT TO BE TOLD TO START

PUT SCHOOL NAME AND TEAM NUMBER ON EACH PAGE

ANSWER SHEETS WITHOUT TEAM #/SCHOOL RECEIVE A ZERO!

44. True

45. **True** 

46. False

47. False

48. False

18. **True** 

19. False

20. False

21. **True** 

22. False

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# Station G

- 49. **(2 points each)** 
  - a. Fungus
  - b. Virus
  - c. Nematode
  - d. Dinoflagellate
  - e. Protozoan
  - f. Bacterium
  - g. Prion
  - h. Fungus
  - i. Virus
  - i. Trematode or Fluke
  - k. Bacterium
  - l. Protozoan
  - m. Bacterium
- 50. Vector (2 points)
- 51. **C** (2 points)
- 52. **B** (2 points

### Station H

- 53. B, C, F (1 point each correct answer)
- 54. **B** (2 points)
- 55. Bioremediation (2 points)
- 56. **(2 points each)** 
  - a. Isolate microbes to remove
  - b. Provide conditions to remove
- 57. A, B, C, D (2 points)
- 58. C **(2 points)**
- 59. False (2 points)
- 60. True (2 points)
- 61. False (2 points)
- 62. True (2 points)

# <u>Total</u>: \_\_\_\_/178

## **Tiebreaker**

- 1. Name which specific microorganism causes the diseases below. Ex. Strep Throat can be caused by *Streptococcus pyogenes*. *S. pyogenes* is also acceptable.
  - a. Legionnaires' disease:

### Legionealla Pneumophila

- b. Dental Caries: *Streptococcus mutans*
- c. Tetanus: Clostridium Tetani
- d. Pelptic Ulcer Disease: *H.*

#### Prylori

- e. Syphilis: T. pallidum
- f. Lyme Disease: **B. burgdorferi**
- g. Schistosomiasis: *Trematodes*,

#### **Flukes**

h. Malaria: Plasmodium

- i. Rabies: *RhabdovirusLvssavirus*
- Classify the following drugs as antibiotic, antiviral, antifungal, or antiprotozoal.
  - a. Ketoconazole: Antifungal
  - b. Enfuvirtide: **Antiviral**
  - c. Amphotericin B: Antifungal
  - d. Clindamycin: Antibiotic
  - e. Artemisinin: Antiprotozoal
  - f. Pyrimethamine:

# Antiprotozoal

- g. Simeprevir: Antivirus
- h. Ornidazole: Antiprotozoal
- i. Ganciclovir: Antivirus
- j. Praziquantel: Antibiotic
- k. Vancomycin: Antibiotic