**Final-Term Assignment (Spring-2020) (BS-MLT 2nd Sec-A & Sec-B)**

**Course Title: Basic Microbiology Instructor: Mr. Fazli Zahir Mian**

**Time: 6 Hours**

**Q1: Fill in the Blanks.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_are live bacteria and yeasts that are good for and have beneficial effects on the host by improving its intestinal microbial balance.
2. Foods containing the combination of probiotics and prebiotics are referred to as\_\_\_\_\_\_\_\_\_\_.
3. When a chemical substance inhibits bacterial growth and proliferation is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. Microbes that are always present are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. The symbiotic relation in which one organism benefits, the other is neither helped nor harmed is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is the direct transfer of DNA from one bacterium to another.
7. A genetic structure in a cell that can replicate independently of the chromosomes is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
8. The population of microorganisms that live on the skin and mucous membranes of health normal person from birth until death is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. The expression of a gene into a protein occurs by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Q2: What is normal flora, advantages and disadvantages of normal flora?**

**Q3: Write in detail different stages of Pathogenesis.**

**Q4: How the Gene Transfer for one bacterium to another.**

**Q5: Write short notes on the following:**

1. Symbiotic relationship
2. Antimicrobial drug
3. Antimicrobial resistance
4. Probiotics
5. Prebiotic

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Good luck.