



## Questions Bank

### General microbiology

**Q1:- Define the following:**

- 1- Microbiology
- 2- Microorganisms
- 3- Eukaryotic
- 4- prokaryotic.
- 5- Archae .
- 6-Louis Pasteur.
- 7- PCR.

**Q2:- Fill in the following table:-**

characteristic	Monera	Protista	Fungi	Plantae	Animal
Cell type					
Body form					

**Q3:- Numerate only:-**

- 1-Five kingdom system .
- 2-The most characteristic of Monera.

**Q4:- Fill in the blanks.**

- 1.The branches of microbiology can be classified into -----  
and ----- sciences.
- 2.-----The study of microorganisms in outer  
space
- 3.-----The study of the role of microbes in veterinary  
medicine or animal taxonomy.

**Q5:- Numerate only.**

1-Pure microbiology. 2-Applied microbiology. 3-Agricultural microbiology.

**Q6:- Fill in the blanks.**

1-The dry mass of a single cell can be estimated as -----% of the wet mass, amounting to 0.2 pg.

2-peptidoglycans (-----,-----,-----), the structural elements of almost all bacterial cell walls

3-There are two main types of teichoic acid: ----- acid and ----- acids.

4-The cell wall of some Gram positive bacteria can be completely dissolved by -----.

**Q7:- Fill in the following table:**

Characteristic		
1-Peptidoglycan		
2-Teichoic acid		

**Q8:- Numerate and drawing.**

1-Number the location of flagella arrangements , (With drawing).

2-Number the position of spores in a bacterium.

**Q9:- Draw with the marking on the parts.**

1-My appearance for Sport section.

2-My appearance for Bacteria.

**Q10:- Define the following:**

1- species    2. Strain    3. Universal Phylogenetic Tree .

**Q11:- Numerate only.**

1-What stages of Phenotypic classification systems.

2-What a mechanism Berge's current classification of prokaryotes.

**Q12:- Define the following:**

1-Autotrophs 2. Heterotrophs 3. Optimum pH 4. Facultative organisms 5. Psychrophilic. 6. Generation time 7. Lag Phase

**Q13:- Numerate only.**

1-Growth Factors .

2-The growth of bacteria required culture media that provide.

3-Gas requirement.

4-There are three groups of bacteria as regard to the temperature.

5-The growth of microorganism can be measured by.

6-Four(4) characteristic phases of the growth cycle are recognized.

**Q14:- Define the following:**

1-Sterilization 2. Disinfection 3. Antisepsis 4. Bacteriostatic 5. Autoclave.

**Q15:- Fill in the blanks.**

1. -----is the process of removal of contaminating pathogenic microorganisms from the articles by a process of sterilization or disinfection.

2. ----- is that chemical that can kill or inactivate bacteria.

3. ----- does not kill microbes, it separates them out.

**Q16:-Numerate only.**

1. Physical methods of sterilization .

2.Factors affecting sterilization by heat are.

3. Chemical methods of disinfection .

**Q17 Answer all questions:-**

- 1- What is the idea antimicrobial drug?
- 2-What is MIC and MBC.
- 3-What is Mechanisms of antimicrobial agents.
- 4-What is Mechanisms of antimicrobial resistance.
- 5-What is Types of resistance.

**Q18 Eumerated Only:-**

- 1-Mechanisms of the typical virulence factors.
- 2-Virulence factors.
- 3-Mechanisms of mutation.
- 4-The types of gene transfer Mechanisms.
- 5-Significance of plasmids.

**Q19 Define the following:-**

- 1- Probiotics Bcateria.
- 2- CAM.
- 3- Prebiotics.
- 4- Symbiotic.
- 5- The bacterial ' Balance act' can thrown off in two major ways.

**Q20 Fill the following table by( + or -) :-**

N	<i>Bacterial</i>	Nose	pharynx	Mouth	Vagina	Skin
1	<i>Stapylococcus epidermidis</i>					
2	<i>Stapylococcus aurues</i>					
3	<i>Streptococcus pyogenes</i>					
4	<i>Neisseria meningitis</i>					
5	<i>Enterobacteriaceae (Escherichia coil)</i>					
6	<i>Proteus Spp</i>					

**Q21 Eumerated Only:-**

1-General characters of mycoplasma.

2-The main causes of this disease inculde.( mycoplasma)

3-Draw cell structure of mycoplasma.