

### **Lecture 3:**

**1) When nutrients in the culture media are depleted and toxic materials accumulated and death in the bacteria is more than replication, this will lead to?**

- a. Stationery phase**
- b. log phase**
- c. Lag phase**
- d. Decline phase**
- e. Exponential phase**

**2) Nystatin is added in Thayer Martin medium in order to kill?**

- a. Neisseria gonorrhoeae**
- b. Most gram-negative organisms**
- c. Most fungi**
- d. Swarming Proteus**

**3) The correct order of bacterial growth stages is:**

- a-Lag phase > Log phase > death phase > stationary phase**
- b-Lag phase > Log phase > stationary phase > death phase**
- c-Log phase > Lag phase > death phase > decline phase**
- d-Lag phase > stationary phase > death phase > exponential phase**

**4) Which of the following is a selective media?**

- a- Thayer martin medium**
- b- blood agar**
- c- chocolate agar**
- d-Robertson's cooked meat medium**

### **Lecture 4:**

5) What is the name of enzyme that Trimethoprim inhibits to prevent the bacteria synthesis folic acid?

- a. Methylenetetrahydrofolate dehydrogenase
- b. Dihydrofolate reductase
- c. Folylpoly-gamma-glutamate synthetase
- d. Gamma-glutamyl hydrolase
- e. Serine hydroxymethyltransferase

6) An example of obligate anaerobes?

- a. Campylobacter species
- b. Helicobacter species
- c. Pseudomonas aeruginosa
- d. Bacteroides fragilis

7) Lithotroph bacteria:

- a- can use light energy
- b- can draw carbon from carbon dioxide
- c- can use inorganic sources for obtaining hydrogen
- d- must obtain energy from oxidation-reduction of external chemical compounds

**ANSWERS : 1:D , 2:C , 3:B , 4:A , 5:B , 6:D , 7:C**