

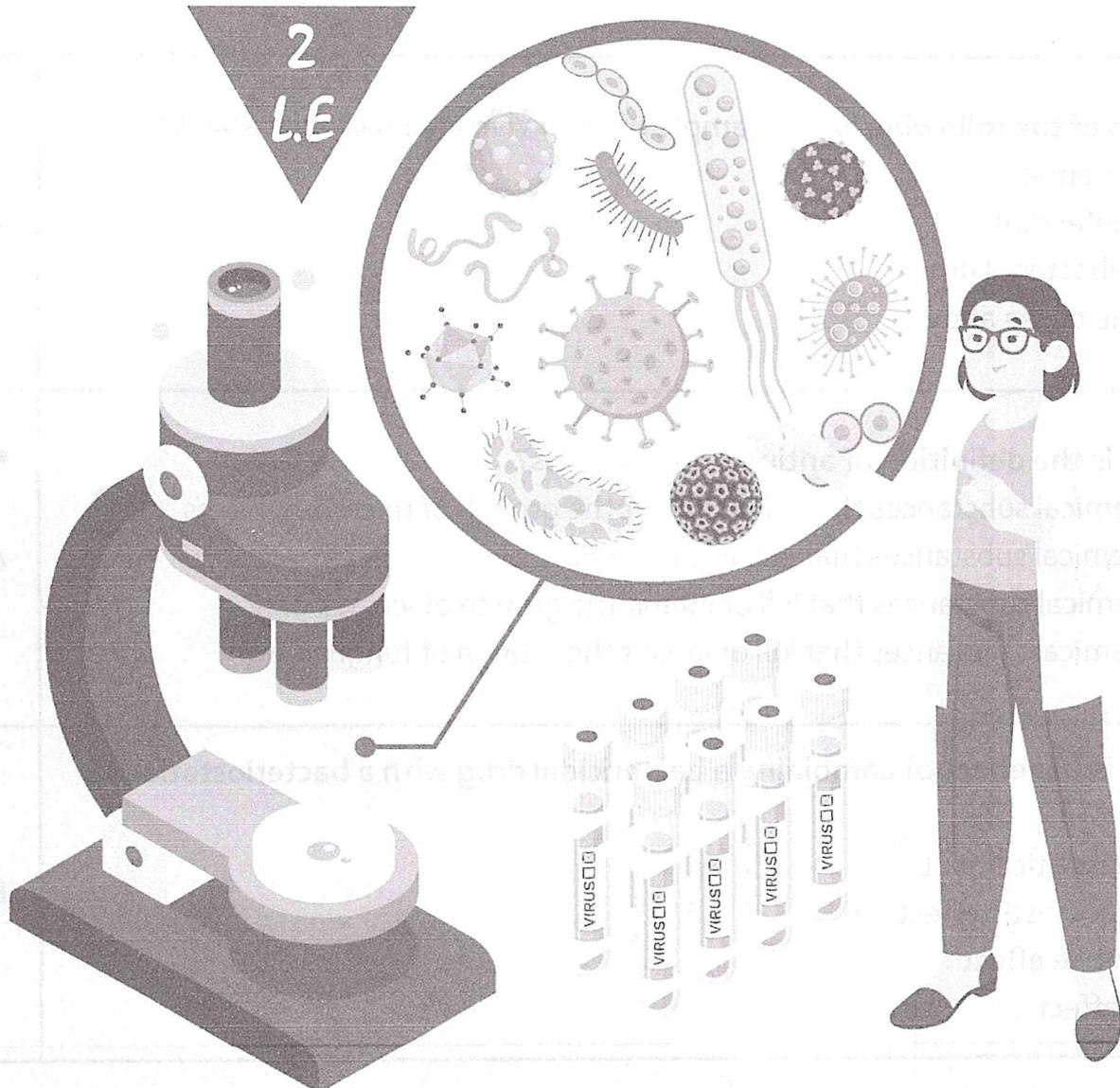
level 1
semester 2

MICROBIOLOGY

DR. ZIAD MAHANA

MCQ LECTURE 12

2
L.E





MCQ MICRO LECTURE 12

<p>1. What is the effect of combining a bactericidal drug with a bacteriostatic drug?</p> <ul style="list-style-type: none">a) Synergistic effectb) Antagonistic effectc) Additive effectd) No effect	<p>B</p>
<p>2. What is the main goal of antimicrobial agents?</p> <ul style="list-style-type: none">a) To kill host cellsb) To inhibit the growth of microorganisms without injuring host cellsc) To destroy all microorganisms in the environmentd) To promote the growth of microorganisms	<p>B</p>
<p>3. Which of the following is an example of an in vivo antimicrobial agent?</p> <ul style="list-style-type: none">a) Antisepticb) Disinfectantc) Antibacterial drugd) none of the above	<p>C</p>
<p>4. What is the definition of antimicrobial agents?</p> <ul style="list-style-type: none">a) Chemical substances that kill or inhibit the growth of microorganismsb) Chemical substances that kill only bacteriac) Chemical substances that kill or inhibit the growth of viruses onlyd) Chemical substances that kill or inhibit the growth of fungi only	<p>A</p>
<p>5. What is the effect of combining a bactericidal drug with a bacteriostatic drug?</p> <ul style="list-style-type: none">a) Synergistic effectb) Antagonistic effectc) Additive effectd) No effect	<p>B</p>



<p>6. What is antibiotic resistance?</p> <ul style="list-style-type: none">a) The ability of microorganisms to resist the action of antimicrobial agentsb) The ability of microorganisms to destroy host cellsc) The ability of antimicrobial agents to inhibit the growth of microorganismsd) The ability of microorganisms to produce antimicrobial agents	A
<p>7. How is antibiotic resistance developed?</p> <ul style="list-style-type: none">a) Through spontaneous mutations in bacteriab) Through the presence of antimicrobial drugs as selective pressurec) Through the alteration of structural receptors for antimicrobial agentsd) All of the above	D
<p>8. What are plasmids?</p> <ul style="list-style-type: none">a) Bacterial cell membranesb) Extrachromosomal genetic elementsc) Enzymes that inactivate antimicrobial agentsd) Short DNA sequences	B
<p>9. How is the sensitivity of microorganisms to antimicrobial agents determined?</p> <ul style="list-style-type: none">a) By measuring the potency of the antimicrobial agent in solutionb) By measuring its concentration in body fluids or tissuesc) By testing the zones of inhibition of growth on agar surfacesd) All of the above	D
<p>10. Which of the following mechanisms is NOT involved in antimicrobial resistance?</p> <ul style="list-style-type: none">a) Decreased permeability of the organism to the drugb) Inactivation of the drug by enzymes produced by the organismc) Development of an altered structural target site for the drugd) Overproduction of the drug by the organism	D



<p>11. What is the purpose of combining multiple antibiotics in the treatment of microbial infections?</p> <ul style="list-style-type: none">a) To increase the chance for drug reactionsb) To prevent or delay drug resistancec) To promote the growth of microorganismsd) To decrease the chance of drug interactions	B
<p>12. Which of the following is a potential disadvantage of using antibiotic combinations?</p> <ul style="list-style-type: none">a) Increased effectiveness against mixed or unknown infectionsb) Lower cost of treatmentc) Increased risk of drug antagonismd) Decreased chance for drug reactions	C
<p>13. How is the susceptibility of microorganisms to antimicrobial agents typically tested in the laboratory?</p> <ul style="list-style-type: none">a) By measuring the drug concentration in body fluidsb) By testing the ability of microorganisms to destroy host cellsc) By measuring the zones of inhibition of growth on agar surfacesd) By evaluating the potency of the antimicrobial agent in solution	C
<p>14. What is the minimal inhibitory concentration (MIC) of an antimicrobial agent?</p> <ul style="list-style-type: none">a) The concentration of the drug required to kill all microorganismsb) The concentration of the drug required to inhibit bacterial growthc) The concentration of the drug in body fluids or tissuesd) The concentration of the drug required to destroy host cells	B
<p>15. Mechanisms of Action of Antibiotics include</p> <ul style="list-style-type: none">a. Inhibition of cell wall synthesis.b. Inhibition of cell membrane permeability or inhibition of active transport.c. Inhibition of protein synthesis.d. Inhibition of nucleic acid synthesise. All of the Above	E
<p>16. A bactericidal drug when combined with another bactericidal drug may produce a synergistic effect</p> <ul style="list-style-type: none">a. Synergismb. Antagonismc. Additiond. None of the Above	A



<p>17. A bacteriostatic drug combined with a bactericidal drug is likely to produce antagonistic effect</p> <ul style="list-style-type: none">a. Synergismb. Antagonismc. Additiond. None of the Above	B
<p>18. A bacteriostatic drug combined with another bacteriostatic drug is usually merely additive</p> <ul style="list-style-type: none">a. Synergismb. Antagonismc. Additiond. None of the Above	C
<p>19. Cotrimoxazole a combination of trimethoprim and sulphamethoxazole is an example of</p> <ul style="list-style-type: none">a. Synergismb. Antagonismc. Additiond. None of the Above	C
<p>20. Advantages of drug Combination is</p> <ul style="list-style-type: none">a. Promote treatment in patients suspected to have serious microbial infections.b. Prevent or delay drug resistance.c. Effective in mixed or unknown infection.d. All of the Above	D

