SELF-ASSESMENT TEST: BASIC LEVEL

- 1. Bacterial genome consists of:
- a) one molecule of dsDNA
- b) DNA or RNA
- c) DNA surrounded by the nuclear membrane
- d) two or more DNA molecules
- 2. Cytoplasmic structures not present in bacteria are :
- a) ribosomes
- b) endoplasmic reticulum
- c) RNA
- d) DNA
- 3. Critical for the survival of bacteria is:
- a) capsule
- b) pili
- c) cell wall
- d) flagellum
- 4. Only Gram-negative bacteria contain:
- a) exotoxins
- b) peptidoglycan
- c) lipopolysaccharidae
- d) plasmids
- 5. Which of the following is the most important structure related with microbial attachment to cells?:
- a)flagellum
- b)plasmid
- c)peptidoglycan
- d)glycocalix
- 6. Virulence genes in pathogenic bacteria are:
- a) always expressed constitutively
- b) always on the chromosome
- c) able to be transferred to other species
- d) a + b
- 7. Resistance to betalactam antibiotics can be acquired by:
- a) decreasing permeability
- b) acquisition of a plasmid coding for a betalactamase
- c) mutations in the PBPs genes
- d) a + b + c
- 8. Pathogenic bacteria can cause damage to the host tissues by:
- a) production of exotoxins
- b) inflammatory response
- c) endotoxins
- d) a+b+c
- 9. A healthy individual but with a pathogenic bacteria among the normal flora:
- a) is suffering from an acute infectious disease
- b) is a potential origin of infection
- c) do not produce antibodies against the pathogen
- d) a pathogen can not be part of the normal flora
- 10. Choose which of the following is not a mechanism of bacterial gene transfer:

- a) conjugation b) transformation c) transcapsulation d) transduction b) pili
- 11. Transduction is mediated by:
- a) bacteriophages
- c) plasmids
- d) Hfr- cells
- 12. Teichoic acids form part of the structure of:
- a) gram + cytoplasmic membrane
- b) gram cytoplasmic membrane
- c) gram + cell wall
- d) gram cell wall
- 13. Capsules are virulence factors as:
- a) inhibit phagocitosis
- b) are toxic for human cells
- c) inhibit the complement system
- d) contains endotoxins
- 14. The location of O antigen in Gram bacteria is :
- a) lipopolysaccharidae
- b) flagellum
- c) pili
- d) capsule
- 15. The most frequent nosocomial infection is:
- a) bacteremia
- b) urinary tract infection
- c) gastrointestinal tract
- d) wound infection
- 16. The majority of resistant microorganisms are:
- a) viruses
- b) bacteria
- c) fungi
- d) parasites
- 17. Virulence genes can be located on:
- a) the chromosome
- b) plasmids
- c) bacteriophages
- d) a + b + c
- 18. After Gram staining, Gram negative bacteria are:
- a) red
- b) violet
- c) pink
- d) decoloured
- 19. From the following, indicate which is a self-replicating structure:
- a) plasmids
- b) transposons
- c) integrons
- d) ninguno

- 20. The target of betalactam antibiotics is: a) bacterial ribosome
- b) cell wall
- c) cytoplasmic membrane
- d) DNA

ANSWERS

- 1: a 2: b 3: c 4: c 5: d 6: c 7: d 8: d 9: b 10: c

- 11: a 12: c 13: a 14: a 15: b 16: b 17: d 18: c 19: a 20: b