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| 1. ​Robert Hooke was the first to use the term \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to describe the small honeycomb-like spaces seen in cork.   |  |  | | --- | --- | | *ANSWER:* | ​cell | |

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| 2. ​Emperor Napoleon Bonaparte commissioned a scientific study by **\_\_\_\_\_\_\_\_** to address spoiling of beer and wine.   |  |  | | --- | --- | | *ANSWER:* | Louis Pasteur | |

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| 3. The hemorrhagic fever known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was first described in 1976 in Zaire, Africa.  ​   |  |  | | --- | --- | | *ANSWER:* | Ebola​ | |

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| 4. Letters laced with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ sent through the US Postal Service to media outlet offices represented an act of domestic bioterrorism in 2001.  ​   |  |  | | --- | --- | | *ANSWER:* | anthrax​ | |

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| 5. The Healthcare Infection Control Practices Advisory Committee (HICPAC) is a special section within the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which develops guidelines for healthcare workers to prevent disease transmission in the workplace.  ​   |  |  | | --- | --- | | *ANSWER:* | ​  Centers for Disease Control and Prevention (CDC) | |

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| 6. ​  Surgical technologists and other team members utilize all of the following to prevent disease transmission in the operating room EXCEPT:   |  |  |  | | --- | --- | --- | |  | a. | ​  Aseptic and sterile techniques | |  | b. | ​  Other potentially infectious materials | |  | c. | ​  Personal protective equipment | |  | d. | ​  Surgical conscience |  |  |  | | --- | --- | | *ANSWER:* | b | |

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| 7. Which early pioneer in microbiology first theorized that disease was spread through direct contact or airborne transmission?  ​   |  |  |  | | --- | --- | --- | |  | a. | ​  Girolamo Fracastoro | |  | b. | ​  Edward Jenner | |  | c. | ​  John Needham | |  | d. | ​  Francesco Redi |  |  |  | | --- | --- | | *ANSWER:* | a | |

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| 8. Semmelweis tried implementing strict hand hygiene protocols to reduce the fatality rate in post-partum patients from which of the following diseases?​   |  |  |  | | --- | --- | --- | |  | a. | ​  Anthrax | |  | b. | ​  Puerperal fever | |  | c. | ​  Smallpox | |  | d. | ​  Typhoid fever |  |  |  | | --- | --- | | *ANSWER:* | b | |

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| 9. Robert Koch developed which of the following laboratory technique which is now a standard method for culturing bacterial colonies?  ​   |  |  |  | | --- | --- | --- | |  | a. | ​  Pasteurization by heating | |  | b. | ​  S-shaped flasks with broth | |  | c. | ​  Streak plate wire-loop method | |  | d. | ​  Variolation from pustules |  |  |  | | --- | --- | | *ANSWER:* | c | |

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| 10. Which of the following pioneers in microbiology first proposed that microbes can be classified as either aerobic or anaerobic?​   |  |  |  | | --- | --- | --- | |  | a. | ​  Edward Jenner | |  | b. | ​  Joseph Lister | |  | c. | ​  Robert Koch | |  | d. | ​  Louis Pasteur |  |  |  | | --- | --- | | *ANSWER:* | d | |

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| ​Match the term or phrase with the correct description.   |  |  |  |  | | --- | --- | --- | --- | | a. | ​Method used to determine immunity or susceptibility to diphtheria | b. | ​A hypothesis or basic assumption based on scientific study and deduction | | c. | ​Early theory that living things spontaneously arise from non-living materials | d. | ​Inoculation of a healthy individual with fluid from cowpox pustules to gain immunity | | e. | ​Term used by von Leeuwenhoek to describe microscopic organisms | f. | ​The process of passing genetic material between bacterial cells | | g. | ​Extensive, possibly world-wide disease outbreak involving large groups | h. | ​Early theory that disease was spread by “bad air" | | i. | ​Any agent capable of destroying all microbial life, including spores | j. | Condition of being vulnerable to disease due to ineffective natural body defenses | |

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| 11. ​abiogenesis   |  |  | | --- | --- | | *ANSWER:* | c | |

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| 12. ​animalcules   |  |  | | --- | --- | | *ANSWER:* | e | |

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| 13. ​conjugation   |  |  | | --- | --- | | *ANSWER:* | f | |

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| 14. immunocompromised   |  |  | | --- | --- | | *ANSWER:* | d | |

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| 15. miasma theory   |  |  | | --- | --- | | *ANSWER:* | h | |

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| 16. ​pandemic   |  |  | | --- | --- | | *ANSWER:* | g | |

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| 17. ​postulate   |  |  | | --- | --- | | *ANSWER:* | b | |

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| 18. Schick test   |  |  | | --- | --- | | *ANSWER:* | a | |

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| 19. ​sterilant   |  |  | | --- | --- | | *ANSWER:* | i | |

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| 20. variolation   |  |  | | --- | --- | | *ANSWER:* | d | |

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| 21. ​  A surgical conscience is something that pertains exclusively to surgical technologists, not others.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | |

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| 22. Semmelweis identified that medical students were responsible for the high mortality rate from puerperal fever in post-partum patients.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | |

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| 23. Pasteur reduced post-operative wound infections by soaking dressings in carbolic acid and spraying it over surgical set-ups. ​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | |

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| 24. Robert Koch discovered the first antibiotic while discarding used Petri dishes after experiments.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | |

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| 25. Standard precautions no longer apply because they have been replaced by universal precautions by the CDC’s HICPAC.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | |

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| 26. Transmission-based precautions include airborne, contact, and droplet precautions.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | |

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| 27. Hans Gram is credited with developing the pure culture techniques and streak plate method used in laboratory analyses.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | |

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| 28. Endemic diseases are continuously present in certain geographic areas and involve relatively few people with low mortality rates.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | |

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| 29. Both aerobic and anaerobic microbes grow best in the presence of air, but only anaerobic microbes create pus.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | |

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| 30. PPEs include masks, sterile and unsterile gowns and gloves, hats, shoe covers, respirators, and aprons.​   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | |