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

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| *ANSWER:* | ​cell |

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

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| *ANSWER:* | Louis Pasteur |

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| 3. The hemorrhagic fever known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was first described in 1976 in Zaire, Africa.​

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| *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.​

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| *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.​

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| *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:

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|   | a.  | ​Aseptic and sterile techniques |
|   | b.  | ​Other potentially infectious materials |
|   | c.  | ​Personal protective equipment  |
|   | d.  | ​Surgical conscience |

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| *ANSWER:* | b |

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| 7. Which early pioneer in microbiology first theorized that disease was spread through direct contact or airborne transmission?​

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| --- | --- | --- |
|   | a.  | ​Girolamo Fracastoro  |
|   | b.  | ​Edward Jenner |
|   | c.  | ​John Needham |
|   | d.  | ​Francesco Redi |

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| *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?​

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|   | a.  | ​Anthrax  |
|   | b.  | ​Puerperal fever |
|   | c.  | ​Smallpox |
|   | d.  | ​Typhoid fever |

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| *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?​

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|   | a.  | ​Pasteurization by heating |
|   | b.  | ​S-shaped flasks with broth |
|   | c.  | ​Streak plate wire-loop method |
|   | d.  | ​Variolation from pustules  |

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| *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?​

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|   | a.  | ​Edward Jenner |
|   | b.  | ​Joseph Lister |
|   | c.  | ​Robert Koch |
|   | d.  | ​Louis Pasteur |

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| *ANSWER:* | d |

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| ​Match the term or phrase with the correct description.

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| 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

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| *ANSWER:* | c |

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| 12. ​animalcules

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| *ANSWER:* | e |

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| 13. ​conjugation

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| *ANSWER:* | f |

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| 14. immunocompromised

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| *ANSWER:* | d |

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| 15. miasma theory

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| *ANSWER:* | h |

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| 16. ​pandemic

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| *ANSWER:* | g |

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| 17. ​postulate

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| *ANSWER:* | b |

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| 18. Schick test

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| *ANSWER:* | a |

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| 19. ​sterilant

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| *ANSWER:* | i |

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| 20. variolation

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| *ANSWER:* | d |

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| 21. ​A surgical conscience is something that pertains exclusively to surgical technologists, not others.

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|   | a.  | True |
|   | b.  | False |

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| *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.​

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|   | a.  | True |
|   | b.  | False |

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| *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. ​

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|   | a.  | True |
|   | b.  | False |

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| *ANSWER:* | False |

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| 24. Robert Koch discovered the first antibiotic while discarding used Petri dishes after experiments.​

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|   | a.  | True |
|   | b.  | False |

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| *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.​

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|   | a.  | True |
|   | b.  | False |

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| *ANSWER:* | False |

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| 26. Transmission-based precautions include airborne, contact, and droplet precautions.​

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|   | a.  | True |
|   | b.  | False |

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| *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.​

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|   | a.  | True |
|   | b.  | False |

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| *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.​

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|   | a.  | True |
|   | b.  | False |

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| *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.​

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|   | a.  | True |
|   | b.  | False |

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| *ANSWER:* | False |

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| 30. PPEs include masks, sterile and unsterile gowns and gloves, hats, shoe covers, respirators, and aprons.​

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| --- | --- | --- |
|   | a.  | True |
|   | b.  | False |

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| *ANSWER:* | True |

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