**BITS Pilani Hyderabad**

**Microbiology BIO F212**

**Mid-sem Laboratory Quiz**

**(Answer Sheet)**

**Date: 29-10-2022 Time: 20 minutes Total Marks: 15M**

**IC: Dr. Ruchi Jain Dey**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Instructions:**

**1. Please fill in your answer by colouring the cell corresponding to correct option(s).**

**2. Each question carries 1M.**

**3. NEGATIVE MARKING: For every wrong answer, 0.25M will be deducted**

**4. Submit only the answer sheet.**

1. Iodine is used in:
2. Simple staining as primary stain
3. Gram staining as mordant
4. Gram staining as decolouriser
5. Counter Staining
6. Which of the following is true for cell wall composition of Gram-negative bacteria?
7. 85% peptidoglycan, LPS, Teichoic acid
8. 10% peptidoglycan, LPS, Teichoic acid
9. 90% peptidoglycan, LPS, Plasma membrane
10. 10% peptidoglycan, LPS, Plasma membrane
11. The primary stain of the Gram’s method is:
12. Nigrosin
13. Crystal violet
14. Safranin
15. Iodine
16. We can replace crystal violet with \_\_\_\_\_\_\_\_\_\_\_ for gram staining, which is proved to be equally efficient.
17. India ink
18. Nigrosin
19. Methylene blue
20. Carbol fuchsin
21. How should heavy autoclaved media bottles that need to be transported from one lab on the 4th floor to another on 2nd floor be handled?
22. Wear gloves and transport carefully in your hands through stairs
23. Wear gloves and transport in a secondary container (a tray) through stairs.
24. Carry the material on a trolley through elevator, gloves are optional.
25. Wear gloves and carry the material in a secondary container on a trolley through the elevator
26. The ability does the microscope to reveal closely adjacent points as separate & distinct?
    * 1. Magnification
      2. Resolution
      3. Numerical aperture
      4. None of the above
27. \_\_\_\_\_\_ controls the intensity of light entering the microscope.
28. Iris Diaphragm
29. Mirror
30. Condenser
31. None of the above
32. A flask with *Pseudomonas aeruginosa* culture needs to be decontaminated. Conditions for autoclaving the culture flask are:
33. 121°C/10psi for 15 minutes
34. 121°C/15psi for 5 minutes
35. 100°C/15psi for 15 minutes
36. 121°C/15psi for 15 minutes
37. What does HEPA stand for?
38. High efficiency particle air
39. Highly efficient particulate air
40. High efficiency particulate air
41. High efficiency particulate aerosol
42. The lethality of microbes being handled in a BSL increases in the following order:
43. BSL- IV < III < II <I
44. BSL- I < II < III < IV
45. BSL- IV> III > II> I
46. None of the above
47. What percent of sodium hypochlorite is generally used for sterilization?
48. 10
49. 40
50. 70
51. 100

12. To see an object, it must be suspended at an angle \_\_\_\_\_\_\_\_\_\_ at the eye.

1. =1°
2. <1°
3. >1°
4. < 25°

13. What is the other name of the eye piece lens?

1. Resolving lens
2. Ocular lens
3. Objective lens
4. Condenser lens

14. NAM sugar units in the peptidoglycan are extended by the following tetra peptides except

1. L- alanine
2. L- glutamine
3. meso- diaminopimelic acid
4. D- alanine
5. The non-directional motion of non-motile bacteria is due to
6. Flagella
7. Collisions and air currents
8. Pilli
9. Gliding movement

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