

Answer all questions

1x10=10

1. What is Bioaerosol? Write two examples of airborne pathogen.
2. How Stoke's law is important in air-microbiology
3. What is Nosocomial Infection? Give example
4. What is Impaction and Impingement?
5. What is the principle of desiccation method? What is allergens?
6. What is HEPA filter? Write its importance
7. What is PM 2.5?
8. What is BOD and DO?
9. What is Potable water? Give example of water borne pathogen
10. What is incineration

Answer five questions

5x2=10

1. What is air microbiological pathway?
2. Differ between droplet, droplet nuclei and infectious dust
3. Briefly describe the factors which influence the ability of a bioaerosol to survive in air
4. Difference between three modes of bioaerosol transport
5. Why is air not a favorable environment for microbial growth? Write down the source microbes in air?
6. Write down the principle behind Biosafety cabinet

Answer all questions

5x3=15

1. Why is UV light used in Air purification systems?
2. Write down the different types of Bioaerosol sampling process
3. What is CFU? How CFU calculated in terms of air sampling
4. Write short notes on Cholera. How does Cholera toxin work?
5. Write down the lifecycle of *Entamoeba histolytica*

Answer any one question

1x10=10

1. How do you characterize air microflora?
2. Briefly describe different water borne pathogen with their clinical manifestations, treatment, transmission (each one)