

National Board of Examinations

Question Paper Name : DNB Microbiology Paper4

Is this Group for Examiner? : No

Enable Mark as Answered Mark for Review and Clear Response : Yes

Question Number : 1 Question Type : SUBJECTIVE

Describe the principle of MALDI-TOF. State its advantages and limitations in a diagnostic microbiology laboratory. [4+3+3]

Question Number : 2 Question Type : SUBJECTIVE

Write briefly on

- a) Edible vaccines. [5]
- b) Inhaled antibiotics for Gram negative respiratory infections. [5]

Question Number : 3 Question Type : SUBJECTIVE

What are the various categories of biomedical waste. Discuss the recent guidelines for disposal of biomedical waste. [5+5]

Question Number : 4 Question Type : SUBJECTIVE

Enumerate the bio-warfare agents and methods of their detection. [5+5]

Question Number : 5 Question Type : SUBJECTIVE

Classify antimicrobials agents based on PK-PD parameters. Discuss in detail about PK-PD monitoring of antimicrobials. [4+6]

Question Number : 6 Question Type : SUBJECTIVE

Discuss the vaccines against Malaria. [10]

Question Number : 7 Question Type : SUBJECTIVE

Describe the uses of next generation sequencing techniques in clinical microbiology. [10]

Question Number : 8 Question Type : SUBJECTIVE

Discuss the principle and applications of microarrays in diagnostic microbiology. [5+5]

Question Number : 9 Question Type : SUBJECTIVE

Define antimicrobial stewardship. Mention the components of antimicrobial stewardship program in hospital settings. What is empiric and prophylactic antibiotic therapy. [2+3+5]

Question Number : 10 Question Type : SUBJECTIVE

What is nanotechnology? Discuss the applications of nanotechnology in clinical microbiology. [3+7]