

# National Board of Examinations

**Question Paper Name :** DNB Microbiology Paper1  
**Subject Name :** DNB Microbiology Paper1  
**Duration :** 180  
**Total Marks :** 100  
**Display Marks:** No

**Maximum Instruction Time :** 0

**Question Number : 1 Question Id : 32718737565 Consider As Subjective : Yes**

**Please write your answers in the answer booklet within the allotted pages as follows:-**

Question Number	Answer to be attempted within	Question Number	Answer to be attempted within
Q. 1	Page 1-5	Q. 6	Page 26-30
Q. 2	Page 6-10	Q. 7	Page 31-35
Q. 3	Page 11-15	Q. 8	Page 36-40
Q. 4	Page 16-20	Q. 9	Page 41-45
Q. 5	Page 21-25	Q. 10	Page 46-50

1. Write briefly on factors influencing efficacy and methods to test efficacy of sterilant/disinfectant. [5+5]

**Question Number : 2 Question Id : 32718737566 Consider As Subjective : Yes**

Colistin resistance:

- Mechanism of resistance. [5]
- Laboratory detection. [5]

**Question Number : 3 Question Id : 32718737567 Consider As Subjective : Yes**

Define catheter associated blood stream infections. Discuss the surveillance strategies for catheter associated blood stream infections. Describe bundle care. [2+4+4]

**Question Number : 4 Question Id : 32718737568 Consider As Subjective : Yes**

Discuss the role of probiotics & prebiotics in human health. [5+5]

**Question Number : 5 Question Id : 32718737569 Consider As Subjective : Yes**

Discuss antibiotic interactions. How is in-vitro antibiotic synergy tested in the laboratory? [5+5]

**Question Number : 6 Question Id : 32718737570 Consider As Subjective : Yes**

Discuss the non-culture based tests used in microbiology for diagnosis of infectious diseases. Discuss their advantages and disadvantages. [5+5]

**Question Number : 7 Question Id : 32718737571 Consider As Subjective : Yes**

a) Define sharp injury and prevention strategies in health care. [5]

b) Discuss the management for Hepatitis B infection following needle stick injury in health care worker. [5]

**Question Number : 8 Question Id : 32718737572 Consider As Subjective : Yes**

Discuss toll like receptors and their significance. [10]

**Question Number : 9 Question Id : 32718737573 Consider As Subjective : Yes**

What is acquired and intrinsic resistance. Briefly discuss the genetic mechanisms of antibiotic resistance in bacteria with examples. [3+7]

**Question Number : 10 Question Id : 32718737574 Consider As Subjective : Yes**

Write about the modifications of PCR as diagnostic aid in various diseases. [10]