

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Microbiology Paper1
<b>Subject Name :</b>	DNB Microbiology Paper1
<b>Creation Date :</b>	2021-08-25 17:08:43
<b>Duration :</b>	180
<b>Total Marks :</b>	100
<b>Display Marks:</b>	No

## DNB Microbiology Paper1

<b>Group Number :</b>	1
<b>Group Id :</b>	327187337
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	180
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	100
<b>Is this Group for Examiner? :</b>	No

## DNB Microbiology Paper1

<b>Section Id :</b>	327187340
<b>Section Number :</b>	1
<b>Section type :</b>	Offline
<b>Mandatory or Optional :</b>	Mandatory

<b>Number of Questions :</b>	10
<b>Number of Questions to be attempted :</b>	10
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	327187344
<b>Question Shuffling Allowed :</b>	No

**Question Number : 1 Question Id : 3271871891 Question Type : SUBJECTIVE**

**Correct Marks : 10**

- a) Define ventilator-associated events/pneumonia. [3]
- b) Describe the methodology for its surveillance. [7]

**Question Number : 2 Question Id : 3271871892 Question Type : SUBJECTIVE**

**Correct Marks : 10**

- a) Define occupational infections in health care settings. [2]
- b) Describe measures to prevent needle stick injuries. [4]
- c) Discuss post-exposure prophylaxis for Hepatitis B. [4]

**Question Number : 3 Question Id : 3271871893 Question Type : SUBJECTIVE**

**Correct Marks : 10**

- a) Define immunological tolerance. [2]
- b) Describe mechanisms involved in the development of immunological tolerance. [8]

**Question Number : 4 Question Id : 3271871894 Question Type : SUBJECTIVE**

**Correct Marks : 10**

- a) Discuss the principle of Real time Polymerase Chain Reaction (PCR). [5]
- b) Describe its applications in clinical microbiology. [5]

**Question Number : 5 Question Id : 3271871895 Question Type : SUBJECTIVE**

**Correct Marks : 10**

a) Classify carbapenemases. [3]

b) Describe various tests available for its detection. [7]

**Question Number : 6 Question Id : 3271871896 Question Type : SUBJECTIVE**

**Correct Marks : 10**

Write briefly about conjugate vaccines. [10]

**Question Number : 7 Question Id : 3271871897 Question Type : SUBJECTIVE**

**Correct Marks : 10**

What are Type I Natural Killer T Cells? Describe its role in immune response to infectious diseases.  
[3+7]

**Question Number : 8 Question Id : 3271871898 Question Type : SUBJECTIVE**

**Correct Marks : 10**

Write a short note on new  $\beta$ -Lactam- $\beta$ -Lactamase Inhibitor Combinations. [10]

**Question Number : 9 Question Id : 3271871899 Question Type : SUBJECTIVE**

**Correct Marks : 10**

Discuss Infection control measures for COVID-19. [10]

**Question Number : 10 Question Id : 3271871900 Question Type : SUBJECTIVE**

**Correct Marks : 10**

What are ESKAPE pathogens? Describe in detail about antimicrobial resistance in these pathogens.  
[3+7]