

National Board of Examinations

Question Paper Name :	DNB Microbiology Paper1
Subject Name :	DNB Microbiology Paper1
Creation Date :	2023-04-25 11:44:36
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Actual Answer Key :	No

DNB Microbiology Paper1

Group Number :	1
Group Id :	327187814
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Group Marks :	100
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

DNB Microbiology Paper1

Section Id :	327187817
Section Number :	1
Section type :	Offline

Mandatory or Optional : Mandatory
Number of Questions to be attempted : 10
Section Marks : 100
Enable Mark as Answered Mark for Review and Clear Response : Yes
Maximum Instruction Time : 0
Sub-Section Number : 1
Sub-Section Id : 327187821
Question Shuffling Allowed : No
Is Section Default? : null

Question Number : 1 Question Id : 32718720762 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 10

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. Define airborne infections and droplet infections with examples. Describe the preventive strategies in such infections? [5+5]

Question Number : 2 Question Id : 32718720763 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 10

Define surgical site infections. Describe the methods of diagnosis and prevention of Surgical Site Infections (SSIs). [2+4+4]

Question Number : 3 Question Id : 32718720764 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Name the various bacterial virulence factors and their role in pathogenicity in humans. [10]

Question Number : 4 Question Id : 32718720765 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

a) Mucosa associated lymphoid tissue and its significance. [5]

b) biofilms. [5]

Question Number : 5 Question Id : 32718720766 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe the principle of lysogenic conversion. Describe its medical importance and its implications with the help of some examples. Enumerate differences between lysogenic conversion and transduction. [4+3+3]

Question Number : 6 Question Id : 32718720767 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe collection, segregation, storage & transport, treatment and disposal of biomedical waste in relation to a 500 bedded hospital. [2+2+2+2+2]

Question Number : 7 Question Id : 32718720768 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Define agglutination reaction. Describe its applications. What is prozone phenomenon and how it can be overcome? [2+4+2+2]

Question Number : 8 Question Id : 32718720769 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe the mechanism and detection methods of Colistin Resistance in Enterobacterales. Describe the treatment options in such infections. [7+3]

Question Number : 9 Question Id : 32718720770 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe mechanism of resistance in Vancomycin resistant Staphylococcus aureus (VRSA). Describe various Phenotypic and Genotypic methods of its detection. Describe the clinical relevance and magnitude of VRSA? [2+2+2+4]

Question Number : 10 Question Id : 32718720771 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

What is quality assurance (QA) in microbiology laboratory? Describe the components of QA and its importance. [2+6+2]