National Board of Examinations

Question Paper Name :	DNB Microbiology Paper1
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Actual Answer Key :	No

DNB Microbiology Paper1

Group Number :	1
Group Id :	3271871123
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

DNB Microbiology Paper1

Section Id :	3271871126
Section Number :	1

Offline
Mandatory
10
100
Yes
105
0
1
3271871130
No

Question Number : 1 Question Id : 32718710282 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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. Enumerate the virulence factors in bacteria with examples and their role in pathogenicity in humans. [10]

Question Number : 2 Question Id : 32718710283 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) What are the components of innate immunity. [5]

b) Describe the role of innate immunity in disease. [5]

Question Number : 3 Question Id : 32718710284 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

- a) What are immunopotentiators and their role in vaccines. [5]
- b) State the principle of subunit vaccines along with their advantages and limitations. [5]

Question Number : 4 Question Id : 32718710285 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Name various types of gene transfer and their role in drug resistance. [10]

Question Number : 5 Question Id : 32718710286 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) Define device associated infections and their significance. [2]
- b) Define Catheter associated urinary tract infections and approach to prevention. [3+5]

Question Number : 6 Question Id : 32718710287 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) What is the principle of MALDI-TOF and its role in the microbiology laboratory? [3]

b) What are its advantages and limitations? [2]

c) Cytokine storm. [5]

Question Number : 7 Question Id : 32718710288 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) What are the various methods of sequencing of microorganisms? [5]

b) Describe their applications in clinical Microbiology. [5]

Question Number : 8 Question Id : 32718710289 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Discuss the mechanism of Quorum sensing in bacteria and its significance. [6+4]

Question Number : 9 Question Id : 32718710290 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Discuss the various modifications of BMW management in context of COVID-19 along with the basis for such modifications. [10]

Question Number : 10 Question Id : 32718710291 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- a) Define Endotoxins. How do they differ from Exotoxins? [5]
- b) Discuss the mechanism of action of endotoxins. [5]