

National Board of Examinations

Question Paper Name :	DNB Microbiology Paper4
Subject Name :	DNB Microbiology Paper4
Creation Date :	2022-06-25 18:45:02
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DNB Microbiology Paper4

Group Number :	1
Group Id :	3271871126
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 Paper4

Section Id :	3271871129
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 :	3271871133
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718710312 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. a) Reverse vaccinology. [5]

b) Immunofluorescence and its applications in microbiology. [5]

Question Number : 2 Question Id : 32718710313 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Monoclonal antibodies in infectious diseases. [10]

Question Number : 3 Question Id : 32718710314 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

ECOFF values – significance in antimicrobial susceptibility test. [10]

Question Number : 4 Question Id : 32718710315 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Biomarkers for sepsis. [10]

Question Number : 5 Question Id : 32718710316 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Steps of outbreak investigations and role of molecular typing. [10]

Question Number : 6 Question Id : 32718710317 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) Transcriptomics. [5]

b) Vaccine delivery systems. [5]

Question Number : 7 Question Id : 32718710318 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Diagnostic stewardship and its role in emergency department. [10]

Question Number : 8 Question Id : 32718710319 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) Koch's postulates and its molecular modifications. [5]

b) Chemiluminescence and its role in diagnostic microbiology. [5]

Question Number : 9 Question Id : 32718710320 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Vector control in India. [10]

Question Number : 10 Question Id : 32718710321 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Enumerate the newer methods of chemical sterilization. Describe their principle and quality control. [10]