

National Board of Examinations

Question Paper Name :	DNB Microbiology Paper4
Subject Name :	DNB Microbiology Paper4
Creation Date :	2023-10-16 09:54:24
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DNB Microbiology Paper4

Group Number :	1
Group Id :	3271872527
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 Paper4

Section Id :	3271872530
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 :	3271872534
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718725503 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. Describe various methods of sterilization and disinfection of reusable devices. [10]

Question Number : 2 Question Id : 32718725504 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 zoonoses. Describe the environmental or epidemiological factors and biological characteristics of zoonotic organisms that promote the relevant diseases to achieve pandemic potential. [2+4+4]

Question Number : 3 Question Id : 32718725505 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Discuss one health approach to combat antimicrobial resistance. [10]

Question Number : 4 Question Id : 32718725506 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Outline the steps of investigating an outbreak. Describe the role of Microbiologist in investigating an outbreak. [5+5]

Question Number : 5 Question Id : 32718725507 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 and enumerate microbial typing techniques. Describe the various genotypic techniques. [(1+3)+6]

Question Number : 6 Question Id : 32718725508 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Compare and contrast the advantages and limitations of rapid viral antigen detection methods. [10]

Question Number : 7 Question Id : 32718725509 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 diagnostic components under Tuberculosis Control Program. Outline salient differences between Revised National TB Control Program and National TB elimination programme. [5+5]

Question Number : 8 Question Id : 32718725510 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Discuss use of nanotechnology in the diagnosis and management of infectious diseases. [10]

Question Number : 9 Question Id : 32718725511 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Write briefly about various biomarkers and describe their role in diagnosis of infectious disease. [10]

Question Number : 10 Question Id : 32718725512 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) Isothermal amplification techniques in Microbiology. [5]

b) Gnotobiotic animals. [5]