National Board of Examinations

Question Paper Name :DNB Microbiology Paper4Subject Name :DNB Microbiology Paper4Creation Date :2023-04-27 21:17:39Duration :180Share Answer Key With Delivery Engine :No

DNB Microbiology Paper4

No

Group Number: 1

Group Id: 327187817

Actual Answer Key:

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: 327187820

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: 327187824

Question Shuffling Allowed: No

Is Section Default?: null

Question Number: 1 Question Id: 3271877252 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

a) Vaccine delivery systems. [5]

b) Nanoparticles and its applications. [5]

Question Number: 2 Question Id: 3271877253 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 Loop Mediated Isothermal Amplification (LAMP). Discuss its utility in the diagnosis of tuberculosis. [3+7]

Question Number: 3 Question Id: 3271877254 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 catheter related blood stream infection (CRBSI). Discuss the strategies for prevention of

CRBSI. [3+7]

Question Number: 4 Question Id: 3271877255 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) Describe the principle and working of automated blood culture system in Microbiology. [2+2]

b) What is direct sensitivity testing and what is its current status? [3+3]

Question Number: 5 Question Id: 3271877256 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 emerging and reemerging infections with examples. Describe the factors responsible for

these infections. [5+5]

Question Number: 6 Question Id: 3271877257 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 on invertebrate models used in microbial research. [10]

Question Number: 7 Question Id: 3271877258 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 various biocontainment levels practised in diagnostic microbiology. [10]

Question Number: 8 Question Id: 3271877259 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) Monoclonal antibodies and its clinical use. [5]

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

Question Number: 9 Question Id: 3271877260 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 the diagnostic dilemma and management of needle stick injury in Health Care Setting.

[5+5]

Question Number: 10 Question Id: 3271877261 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 CRISPR? Describe applications of CRISPR technology in clinical microbiology with examples. [3+7]