

National Board of Examinations

Question Paper Name :	DNB Biochemistry Paper3
Subject Name :	DNB Biochemistry Paper3
Creation Date :	2023-10-15 15:58:47
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DNB Biochemistry Paper3

Group Number :	1
Group Id :	3271872451
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 Biochemistry Paper3

Section Id :	3271872454
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 :	3271872458
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718724743 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. What are nuclear receptors. Add a note on nuclear receptors with special ligands with reference to thyroid, retinoids, steroids and vitamin-D. [10]

Question Number : 2 Question Id : 32718724744 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Enumerate the catabolic product of purine and pyrimidine. Describe the role of β -alanine and β -amino isobutyric acid (BAIBA) in human body. [10]

Question Number : 3 Question Id : 32718724745 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 antiviral defense of innate immune system. [10]

Question Number : 4 Question Id : 32718724746 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 different type of DNA damages and its consequences. [10]

Question Number : 5 Question Id : 32718724747 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) Microsatellite repeat segments. [5]

b) DNA binding motifs. [5]

Question Number : 6 Question Id : 32718724748 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 role of apoptosis in cancer cells. Write about Extrinsic and Intrinsic pathway. [10]

Question Number : 7 Question Id : 32718724749 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Post transcriptional modifications of mRNA. [10]

Question Number : 8 Question Id : 32718724750 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Justify it:

- a) In cancer cells aerobic glycolysis is prominent. [5]
- b) Not all mutation results in diseases. Why? [5]

Question Number : 9 Question Id : 32718724751 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) Exosomes in cancer. [5]
- b) Targeted therapy in cancer. [5]

Question Number : 10 Question Id : 32718724752 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Superantigens and its role in human diseases. [10]