

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Biochemistry Paper3
<b>Subject Name :</b>	DNB Biochemistry Paper3
<b>Creation Date :</b>	2024-10-19 17:56:26
<b>Duration :</b>	180
<b>Total Marks :</b>	100
<b>Display Marks:</b>	No
<b>Share Answer Key With Delivery Engine :</b>	No
<b>Actual Answer Key :</b>	No

## DNB Biochemistry Paper3

<b>Group Number :</b>	1
<b>Group Id :</b>	3271872706
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	180
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	100

## DNB Biochemistry Paper3

<b>Section Id :</b>	3271872709
<b>Section Number :</b>	1
<b>Section type :</b>	Offline
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	10
<b>Number of Questions to be attempted :</b>	10
<b>Section Marks :</b>	100
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	3271872713
<b>Question Shuffling Allowed :</b>	No

**Question Number : 1 Question Id : 32718728344 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**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. How are purine nucleotides degraded? Add a note on abnormalities due to excessive purine catabolism. [10]

**Question Number : 2 Question Id : 32718728345 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Describe biochemical basis of autoimmunity. Give example of some autoimmune diseases. [10]

**Question Number : 3 Question Id : 32718728346 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Describe post translational modification with example. How posttranslational processing affects the activity of many proteins? [10]

**Question Number : 4 Question Id : 32718728347 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

a) Helix turn helix motif. [5]

b) Code writers, code readers, code erasers justify for histone PTMs. [5]

**Question Number : 5 Question Id : 32718728348 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Discuss mechanism how proto-oncogene are activated to oncogenes. Describe cancer due to chromosomal translocation. [10]

**Question Number : 6 Question Id : 32718728349 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Discuss the DNA repair mechanism. Describe diseases occurring due to fault of DNA damage repair mechanism. [10]

**Question Number : 7 Question Id : 32718728350 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

- a) Warburg effects in cancer cell. [5]
- b) Newer insight in cell cycle control or check points. [5]

**Question Number : 8 Question Id : 32718728351 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

- a) Triplet repeats Disorder. [5]
- b) Role of Nano medicine in cancer therapy. [5]

**Question Number : 9 Question Id : 32718728352 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

What are cryoglobulins and cold agglutinin. Discuss their role in human diseases and laboratory testing. [10]

**Question Number : 10 Question Id : 32718728353 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Explain the Operon concept of regulation of genetic expression. How it differ from eukaryotic gene expression with example. [10]