

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Pharmacology Paper3
<b>Subject Name :</b>	DNB Pharmacology Paper3
<b>Creation Date :</b>	2024-10-19 17:56:16
<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 Pharmacology Paper3

<b>Group Number :</b>	1
<b>Group Id :</b>	3271872824
<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 Pharmacology Paper3

<b>Section Id :</b>	3271872827
<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>	3271872831
<b>Question Shuffling Allowed :</b>	No

**Question Number : 1 Question Id : 32718729524 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. Discuss various alternatives to animal experiments. Write their advantages & limitations. [5+(3+2)]

**Question Number : 2 Question Id : 32718729525 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Discuss the aims, methodology and limitations of chronic toxicity studies done on animals. [3+4+3]

**Question Number : 3 Question Id : 32718729526 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

What is chromatography? What are its various types? Describe the principle, advantages and shortcomings of high performance liquid chromatography (HPLC). [2+3+5]

**Question Number : 4 Question Id : 32718729527 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

a) Experimental evaluation methods for a potential anti-depressant agent. [5]

b) Experimental methods to induce endocrinal hypertension. [5]

**Question Number : 5 Question Id : 32718729528 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Describe briefly the various parametric tests used in statistical analysis. [10]

**Question Number : 6 Question Id : 32718729529 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Define Null hypothesis and Alternate hypothesis respectively with special reference to their significance in clinical trials. Explain type I and type II errors with examples. [5+5]

**Question Number : 7 Question Id : 32718729530 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Define the term Bioassay. What are the principles of Bioassay? Describe various types of Bioassays. [2+3+5]

**Question Number : 8 Question Id : 32718729531 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

What are transgenic animals? Describe the techniques for their production. What is their application in experimental research? [3+3+4]

**Question Number : 9 Question Id : 32718729532 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Discuss the constitution and functions of Institutional Animal Ethics Committee (IAEC). [5+5]

**Question Number : 10 Question Id : 32718729533 Question Type : SUBJECTIVE Consider As Subjective : Yes**

**Correct Marks : 10**

Compare & contrast between the following:

- a) Parametric versus Non-parametric tests. [5]
- b) pD2 value versus pA2 value. [5]