

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Pharmacology Paper1
<b>Subject Name :</b>	DNB Pharmacology Paper1
<b>Creation Date :</b>	2022-12-22 22:33:47
<b>Duration :</b>	180
<b>Share Answer Key With Delivery Engine :</b>	No
<b>Actual Answer Key :</b>	No

## DNB Pharmacology Paper1

<b>Group Number :</b>	1
<b>Group Id :</b>	3271871371
<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>Group Marks :</b>	100
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## DNB Pharmacology Paper1

<b>Section Id :</b>	3271871374
<b>Section Number :</b>	1
<b>Section type :</b>	Offline

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions to be attempted :</b>	10
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	3271871378
<b>Question Shuffling Allowed :</b>	No
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 32718712762 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. Define drug synergism with suitable examples. Describe isobologram for quantification of drug synergism. Discuss the status of drug synergism in antimicrobial therapy? [2+4+4]

**Question Number : 2 Question Id : 32718712763 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 compensation rules in clinical trial related serious adverse event. Describe how to calculate the quantum of compensation in clinical trial related injury/death? [4+6]

**Question Number : 3 Question Id : 32718712764 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 various transduction mechanisms involved in drug action with suitable examples. Briefly discuss the role of GPCRs in signal transduction and drug action. [4+6]

**Question Number : 4 Question Id : 32718712765 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 3D printing technology and its role in medicine and development of a drug. [10]

**Question Number : 5 Question Id : 32718712766 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 bioavailability? What are the factors affecting bioavailability of a drug? What are the methods for estimation of bioavailability? [2+4+4]

**Question Number : 6 Question Id : 32718712767 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 materiovigilance? Outline the materiovigilance programme of India. What are the categories and criteria for causality assessment under materiovigilance? [2+4+4]

**Question Number : 7 Question Id : 32718712768 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Give an account of phase 0 clinical trials. Discuss the advantages and limitations for conducting such trials? [4+(3+3)]

**Question Number : 8 Question Id : 32718712769 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 are the principles for prescribing drugs in geriatric population? Enumerate and discuss the challenges with their solutions to ensure that the pharmacotherapy is appropriate. [6+4]

**Question Number : 9 Question Id : 32718712770 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 pharmacogenetics. Describe the significance of pharmacogenetic testing in clinical settings with examples? [2+8]

**Question Number : 10 Question Id : 32718712771 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 altered metabolic signature in cancer. Discuss the role of drug resistance in cancer. [4+6]