

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Biochemistry Paper1
<b>Subject Name :</b>	DNB Biochemistry Paper1
<b>Creation Date :</b>	2021-08-25 17:08:20
<b>Duration :</b>	180
<b>Total Marks :</b>	100
<b>Display Marks:</b>	No

## DNB Biochemistry Paper1

<b>Group Number :</b>	1
<b>Group Id :</b>	327187227
<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
<b>Is this Group for Examiner? :</b>	No

## DNB Biochemistry Paper1

<b>Section Id :</b>	327187230
<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>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	327187234
<b>Question Shuffling Allowed :</b>	No

**Question Number : 1 Question Id : 327187790 Question Type : SUBJECTIVE**

**Correct Marks : 10**

- a) Discuss the preanalytical, analytical and postanalytical confounders of lipid assessment. [3+3+2]
- b) Enumerate the conditions when lipid assessment can be done in a nonfasting sample. [2]

**Question Number : 2 Question Id : 327187791 Question Type : SUBJECTIVE**

**Correct Marks : 10**

- a) Allosteric enzymes and their role in metabolism. [5]
- b) Competitive and Uncompetitive enzyme inhibition with the help of double reciprocal plot. [5]

**Question Number : 3 Question Id : 327187792 Question Type : SUBJECTIVE**

**Correct Marks : 10**

- a) What are the different types of jaundice? [3]
- b) Describe the causative agents and laboratory tests for its diagnosis. [7]

**Question Number : 4 Question Id : 327187793 Question Type : SUBJECTIVE**

**Correct Marks : 10**

- a) Write a note on widely used statistics to quantify reliability of a test. [7]
- b) Also differentiate between specificity and sensitivity of a laboratory test. [3]

**Question Number : 5 Question Id : 327187794 Question Type : SUBJECTIVE**

**Correct Marks : 10**

- a) How is quality defined in context of clinical laboratory? [5]
- b) What are the essentials of quality management system? [5]

**Question Number : 6 Question Id : 327187795 Question Type : SUBJECTIVE**

**Correct Marks : 10**

- a) Hospital information system. [5]
- b) Blood buffers. [5]

**Question Number : 7 Question Id : 327187796 Question Type : SUBJECTIVE**

**Correct Marks : 10**

- a) Osmolality Vs Osmolarity. [5]
- b) Myoglobin Vs Methemoglobin. [5]

**Question Number : 8 Question Id : 327187797 Question Type : SUBJECTIVE**

**Correct Marks : 10**

Discuss the principle and application of:

- a) "Turbidimetry" in biochemical analysis. [5]
- b) Fluorescent in-situ hybridization (FISH). [5]

**Question Number : 9 Question Id : 327187798 Question Type : SUBJECTIVE**

**Correct Marks : 10**

- a) Role of plasma proteins in COVID-19. [5]
- b) Biochemical analysis of renal stones and its significance. [5]

**Question Number : 10 Question Id : 327187799 Question Type : SUBJECTIVE**

**Correct Marks : 10**

Discuss the criteria for selection of assay procedure. Write a note on validation of the method selected. [5+5]