

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Biochemistry Paper1
<b>Subject Name :</b>	DNB Biochemistry Paper1
<b>Creation Date :</b>	2022-12-22 22:33:49
<b>Duration :</b>	180
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<b>Actual Answer Key :</b>	No

## DNB Biochemistry Paper1

<b>Group Number :</b>	1
<b>Group Id :</b>	3271871292
<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 Biochemistry Paper1

<b>Section Id :</b>	3271871295
<b>Section Number :</b>	1
<b>Section type :</b>	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 :** 3271871299

**Question Shuffling Allowed :** No

**Is Section Default? :** null

**Question Number : 1 Question Id : 32718711972 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. a) What are the various steps to introduce new test in clinical laboratory for routine use? [5]
- b) Describe in detail about analytical performance criterias. [5]

**Question Number : 2 Question Id : 32718711973 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) Predatory journals. [2.5]
- b) STARD initiative. [2.5]
- c) Total quality management. [2.5]

d) Controllable preanalytical variables. [2.5]

**Question Number : 3 Question Id : 32718711974 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) Compare the internal Quality control and External quality assessments programs. [5]
- b) Why we need proficiency testing in laboratory accreditation? [3]
- c) Mention the New quality initiatives that have been developed and implemented to Quality assurance program in clinical laboratories. [2]

**Question Number : 4 Question Id : 32718711975 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) What are isoenzymes? [2]
- b) Describe the clinical significance of any two isoenzymes? [5]
- c) What are the various methods used for laboratory analysis of various isoenzymes? [3]

**Question Number : 5 Question Id : 32718711976 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) Discuss various methods of estimation of Blood glucose alongwith their advantages and disadvantages. [5]
- b) Enumerate the methods of estimation of Glycated hemoglobin. Discuss any one in detail. [2+3]

**Question Number : 6 Question Id : 32718711977 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) What is a meta-analysis? [5]
- b) Describe the advantages and problems associated with this type of study. [5]

**Question Number : 7 Question Id : 32718711978 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) Describe GFR. How it is used to assess renal functions? [5]
- b) Enumerate the various markers used to evaluate creatinine clearance. [3]
- c) State the formula used to determine GFR. [2]

**Question Number : 8 Question Id : 32718711979 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 in brief or tabulate the causes, the primary deficit, compensatory mechanisms and lab values for the following disorders:

- a) Metabolic acidosis. [5]
- b) Respiratory alkalosis. [5]

**Question Number : 9 Question Id : 32718711980 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) Describe the tests used to assess fetal lung maturity. [4]
- b) What is the significance of the following laboratory analytes in assessment of maternal and fetal health:
  - i) Pregnancy associated Plasma protein(PAPP-A). [2]
  - ii) Inhibin A. [2]
  - iii) Alpha fetoprotein. [2]

**Question Number : 10 Question Id : 32718711981 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) Describe various mechanisms which regulate enzyme activity in vivo. [6]
- b) Discuss functional and non-functional enzymes and their importance in health and disease. [4]