

National Board of Examinations

Question Paper Name :	DNB Biochemistry Paper2
Subject Name :	DNB Biochemistry Paper2
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DNB Biochemistry Paper2

Group Number :	1
Group Id :	327187228
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

DNB Biochemistry Paper2

Section Id :	327187231
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory

Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	327187235
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 327187800 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Discuss the regulation of blood glucose in the fasting state. [4]
- b) Enumerate the biochemical investigations done in a case of hyperglycemia. [2]
- c) What are the various factors that can interfere with HbA1c testing? [2]
- d) In what conditions is it difficult to interpret HbA1c results? [2]

Question Number : 2 Question Id : 327187801 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Comparative features of hormone sensitive lipase and lipoprotein lipase. [5]
- b) Hemolytic anaemias due to various enzyme deficiencies involved in the metabolism of carbohydrates. [5]

Question Number : 3 Question Id : 327187802 Question Type : SUBJECTIVE

Correct Marks : 10

List the enzyme deficiencies and discuss briefly the basis of clinical features seen in:

- a) Alkaptonuria. [5]
- b) Maple Syrup Urine Disease. [5]

Question Number : 4 Question Id : 327187803 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Describe the biosynthesis of thyroid hormones and its regulation. [3+3]

b) Write in brief the laboratory diagnosis of hypothyroidism. [4]

Question Number : 5 Question Id : 327187804 Question Type : SUBJECTIVE

Correct Marks : 10

(a) Haematopoietic vitamins. [5]

(b) Biochemical role of vitamin K. [5]

Question Number : 6 Question Id : 327187805 Question Type : SUBJECTIVE

Correct Marks : 10

Discuss the role of Coenzyme Q in electron transfer in ETC. What are the physiological uncouplers of oxidative phosphorylation? [5+5]

Question Number : 7 Question Id : 327187806 Question Type : SUBJECTIVE

Correct Marks : 10

Discuss the ketone body metabolism along with its regulation. Discuss their role in starvation. [4+2+4]

Question Number : 8 Question Id : 327187807 Question Type : SUBJECTIVE

Correct Marks : 10

Represent the pathway leading to the synthesis of important compounds from tyrosine. Discuss briefly the disorders of tyrosine metabolism. [3+7]

Question Number : 9 Question Id : 327187808 Question Type : SUBJECTIVE

Correct Marks : 10

Discuss the clinical features and biochemical basis of:

a) Lesch-Nyhan Syndrome. [5]

b) Immunodeficiency diseases associated with defects in purine nucleotide degradation. [5]

Question Number : 10 Question Id : 327187809 Question Type : SUBJECTIVE

Correct Marks : 10

a) Total Parenteral Nutrition. [5]

b) Biochemical role of Selenium. [5]