# National Board of Examinations

Question Paper Name :DNB Biochemistry Paper2Subject Name :DNB Biochemistry Paper2

**Creation Date :** 2024-10-18 15:26:26

Duration :180Total Marks :100Display Marks:NoShare Answer Key With Delivery Engine :NoActual Answer Key :No

## **DNB Biochemistry Paper2**

Group Number: 1

**Group Id:** 3271872705

Group Maximum Duration:

Group Minimum Duration:

Show Attended Group?:

No
Edit Attended Group?:

No
Break time:

0

## **DNB Biochemistry Paper2**

**Section Id:** 3271872708

Section Number: 1

Section type: Offline

Mandatory or Optional: Mandatory

Number of Questions: 10
Number of Questions to be attempted: 10
Section Marks: 100
Maximum Instruction Time: 0
Sub-Section Number: 1

**Sub-Section Id:** 3271872712

**Question Shuffling Allowed:** No

Question Number: 1 Question Id: 32718734314 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. Define dyslipoproteinemias. What are Frederickson classification of dyslipoproteinemias? Add a note on novel monoclonal antibody for treatment as hypolipidemic drug. [10]

Question Number: 2 Question Id: 32718734315 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Explain anaplerotic role of TCA cycle. Describe role of vitamins and minerals required for TCA cycle. Justify that the fat is burnt on the wick of carbohydrates. [10]

Question Number: 3 Question Id: 32718734316 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

What are inborn errors of metabolism (IEM)? Discuss about biochemical test in laboratory for screening and role of tandem mass spectrometry for diagnosis of IEM diseases. [10]

Question Number: 4 Question Id: 32718734317 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Describe oxidative phosphorylation and substrate level phosphorylation. What are uncouplers and inhibitors of electron transport chain? [10]

Question Number: 5 Question Id: 32718734318 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Describe hormones of hunger and satiety. Explain regulation of eating behavior of humans. [10]

Question Number: 6 Question Id: 32718734319 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Describe the pathway of gluconeogenesis from glycerol and alanine. How are glycolysis and gluconeogenesis regulated reciprocally? [10]

Question Number: 7 Question Id: 32718734320 Question Type: SUBJECTIVE Consider As

**Subjective: Yes** 

#### **Correct Marks: 10**

Describe biochemical basis of complications of diabetes mellitus and its lab biomarker parameters in blood and urine. What is continuous glucose monitoring (CGM)? [10]

Question Number: 8 Question Id: 32718734321 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

What is protein quality and how protein quality is assessed? [10]

Question Number: 9 Question Id: 32718734322 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

What is methyl Folate trap? Explain biochemical basis of  $B_{12}$  and folic acid for prevention of neural tube defect. [10]

Question Number: 10 Question Id: 32718734323 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

a) Excess vitamin C causes stone formation. [5]

b) GIK (Glucose insulin potassium) therapy used for diabetic ketoacidosis. [5]