



Abhinav Bindra Sports Medicine and Research Institute
BPT 2nd Semester 1st Internal Examination

Date: 10.07.2025
Time: 09 AM-11:30 AM

Subject: Biochemistry
F.M. – 40

A) LONG QUESTIONS – Answer any 2 (2 X 20)

1. What is Glycolysis? Describe it with the help of flow chart. How many ATPs are generated in aerobic glycolysis.
2. Describe the factors influencing enzyme catalysis.
3. Discuss on water and electrolytes balance in human body.

B) SHORT QUESTIONS- Answer any 3 (3 X 5)

1. Essential fatty acid
2. Metabolic Acidosis
3. HMP shunt
4. Difference between DNA & RNA
5. Ketone bodies

C) OBJECTIVE TYPE QUESTION (1 x 5)

1. Which of the following is a waste product of protein metabolism?
a) Glucose
b) Fatty acids
c) Urea
d) Amino acids
2. Ketogenesis is the process of:
(a) Synthesis of glucose from non-carbohydrate precursors
(b) Breakdown of fatty acids to produce acetyl-CoA
(c) Synthesis of ketone bodies from acetyl-CoA
(d) Breakdown of ketone bodies to produce energy
3. Which cells of the pancreas produce insulin?
(A) Alpha cells
(B) Beta cells
(C) Delta cells
(D) Gamma cells
4. Beriberi is caused by the deficiency of:
(a) Vitamin A
(b) Vitamin B1 (Thiamine)
(c) Vitamin C
(d) Vitamin D
5. Identify the purine base of nucleic acids in the following.
a) Cytosine
b) Thymine
c) Uracil
d) Adenine