



A Charutar Vidya Mandal's Institution
VP & RPTP SCIENCE COLLEGE
(AUTONOMOUS) (Grant-in-Aid)
Affiliated to Sardar Patel University
VALLABH VIDYANAGAR-388120



M.Sc. SEMESTER-II INTERNAL EXAMINATION-2026

PS02MAZOO02 (MEDICAL BIOCHEMISTRY)

DATE: 07/03/2026 Saturday

TIME: 10:45 AM TO 12:15 AM

MARKS: 30

Question 1: Multiple-choice Questions.

06 Marks

1. Which enzyme is primarily used as a marker for myocardial infarction?
A. Alanine aminotransferase (ALT) B. Creatine kinase-MB (CK-MB)
C. Alkaline phosphatase (ALP) D. Amylase
2. Which vitamin enhances calcium absorption?
A. Vitamin A B. Vitamin C
C. Vitamin D D. Vitamin K
3. Which type of haemoglobin is dominant in foetal life?
A. HbA B. HbS
C. HbH D. HbF
4. In newborn jaundice, which enzyme is immature?
A. UDP-glucuronosyltransferase (UGT) B. Biliverdin reductase
C. Heme oxygenase D. Catalase
5. Which lipoprotein is known as "bad cholesterol"?
A. HDL B. LDL
C. VLDL D. Chylomicrons
6. Which neurotransmitter is deficient in Parkinson's disease?
A. Acetylcholine B. Serotonin
C. Dopamine D. Glutamate



Question 2: Explain the synthesis of Vitamin A in details.

06 Marks

OR

Question 2: Storage, Transport & mechanism of Absorption of Calcium

06 Marks

Question 3: Write a short note on types of haemoglobin.

06 Marks

OR

Question 3: Write a short note on sickle cell anemia.

06 Marks

Question 4: Explain the biochemical mechanism of alzimers disease.

06 Marks

OR

Question 4: Write a short note on structure of HIV .

06 Marks

Question 5: Describe the mechanisms of host-pathogen interactions.

06 Marks

OR

Question 5: Discuss the types of infections, methods of infection, and factors influencing infection.

06 Marks



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**M.Sc. SEMESTER-II Quiz - 2026****PS06MAZOO02 (MEDICAL BIOCHEMISTRY)****DATE: 07/03/2026 Saturday****TIME: 20 Minutes****MARKS: 15**

1. The primary storage form of iron in the body is _____. [Ferritin / Ferrinin]
2. A severe deficiency of Vitamin B12 leads to _____. [Megaloblastic anemia / Sickle cell anemia]
3. Sickle cell anemia is caused by a mutation in the _____ globin chain. [Beta / Alpha]
4. _____ is the water-soluble form of bilirubin. [Conjugated bilirubin / biliverdin]
5. The genetic material of HIV is _____. [Single-stranded RNA / Double-stranded RNA]
6. The enzyme responsible for converting angiotensin I to angiotensin II is _____.
[Angiotensin-converting enzyme (ACE) / Renin]
7. A disruption in gut microbiota balance is known as _____. [Dysbiosis / Symbiosis]
8. The causative agent of tuberculosis is _____. [Mycobacterium tuberculosis / Salmonella]
9. Alkaline phosphatase (ALP) is primarily associated with heart and pancreatic diseases. [True / False]
10. Iron is mainly absorbed in the duodenum. [True / False]
11. Albinism is caused by a deficiency of the enzyme Tyrosinase. [True / False]
12. The main test for renal function is the Serum Bilirubin test. [True / False]
13. The Warburg effect in cancer refers to increased aerobic glycolysis. [True / False]
14. HIV primarily targets B cells. [True / False]
15. Cholera toxin increases levels of cAMP. [True / False]

