

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM.
(Deemed to be University)**

**M.SC.(RENAL DIALYSIS TECHNOLOGY) DEGREE
EXAMINATION February 2020
First Semester**

BIOCHEMISTRY

Time: Three hours

Maximum: 100 marks

Answer **ALL** questions

I. Write an Long essay on :

(2 x 20 = 40)

1. Describe in detail synthesis and activation of vitamin D in our body. Explain the actions of active form of vitamin D. Add note on vitamin D deficiency.
2. Describe the biochemical tests done to assess renal function. What are the abnormal constituents that are routinely tested in urine?

II. Write short notes on :

(10 x 6 = 60)

3. Biochemical tests done to assess liver function.
4. Common causes and compensatory mechanisms of metabolic acidosis.
5. Hormones secreted by adrenal glands and their functions.
6. Digestion and absorption of dietary lipids.
7. Energy production during aerobic and anaerobic glycolysis.
8. Describe the role of hemoglobin as a buffer.
9. Importance of salvage pathway purine synthesis
10. Structural organization of proteins.
11. Functions and deficiency manifestations of vitamin C.
12. Anion gap and its clinical significance.
