

Sl.No.M2245

Course Code:1160301

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM**

M.D. DEGREE EXAMINATION – July 2021

BIOCHEMISTRY

**PAPER I – PHYSICAL AND ORGANIC ASPECTS OF
BIOCHEMISTRY INSTRUMENTATION, BIOCHEMICAL
TECHNIQUES AND BIOSTATISTICS**

Time: Three hours

Total Marks : 100

Answer ALL questions

SECTION - A

Write essay on : **(1 x 20= 20)**

1. Write in detail about the various levels of structural organisation of proteins.
Add a note on evaluation of primary structure of proteins.

Write short notes on: **(5 x 6 =30)**

2. Blood Gas Analysis.
3. Glycosaminoglycans.
4. Prostaglandins.
5. Biologically important nucleotides.
6. Transport across the cell membrane.

SECTION - B

Write essay on: **(1 x 20= 20)**

7. Write in detail about the Definition, Principle, Procedure and application of HPLC and Gas chromatography.

Write short notes on: **(5 x 6 = 30)**

8. DNA Electrophoresis.
9. Regression Analysis.
10. Internal Quality Control.
11. Structure and Functions of different types of RNA.
12. Buffers.
