DEPARTMENT OF BOTANY
D.B. College, Jaynagar,
L.N.M.U. DARBHANGA.

BY: DR. RANJANA
ASST. PROFESSOR
(GUEST FACULTY)

Lecture No: 23

Date: 17.12.2020

B.Sc. PART I SUB/GEN
Theory

CORE CONCEPTOR
Group-A, microbiology.

Shape — In the form of Stayphylococcus or in the form of a cubes (Sarcina) All Coccai forms lock flagella.

(ii) Rod-shaped (Also known as bacilli). They may occur singly in groups of two (diplobacillus) or in chain (Streptobacillus).

(iii) Helical or Spiral — These are of ~~two~~ of two types —

(a) Spirilla — Body is twisted spirally like a "cork-screw".

(b) Vibrios — These are short curved rods or comma-shaped.

Some bacteria are able to change their shape and size and are called pleomorphic bacteria.

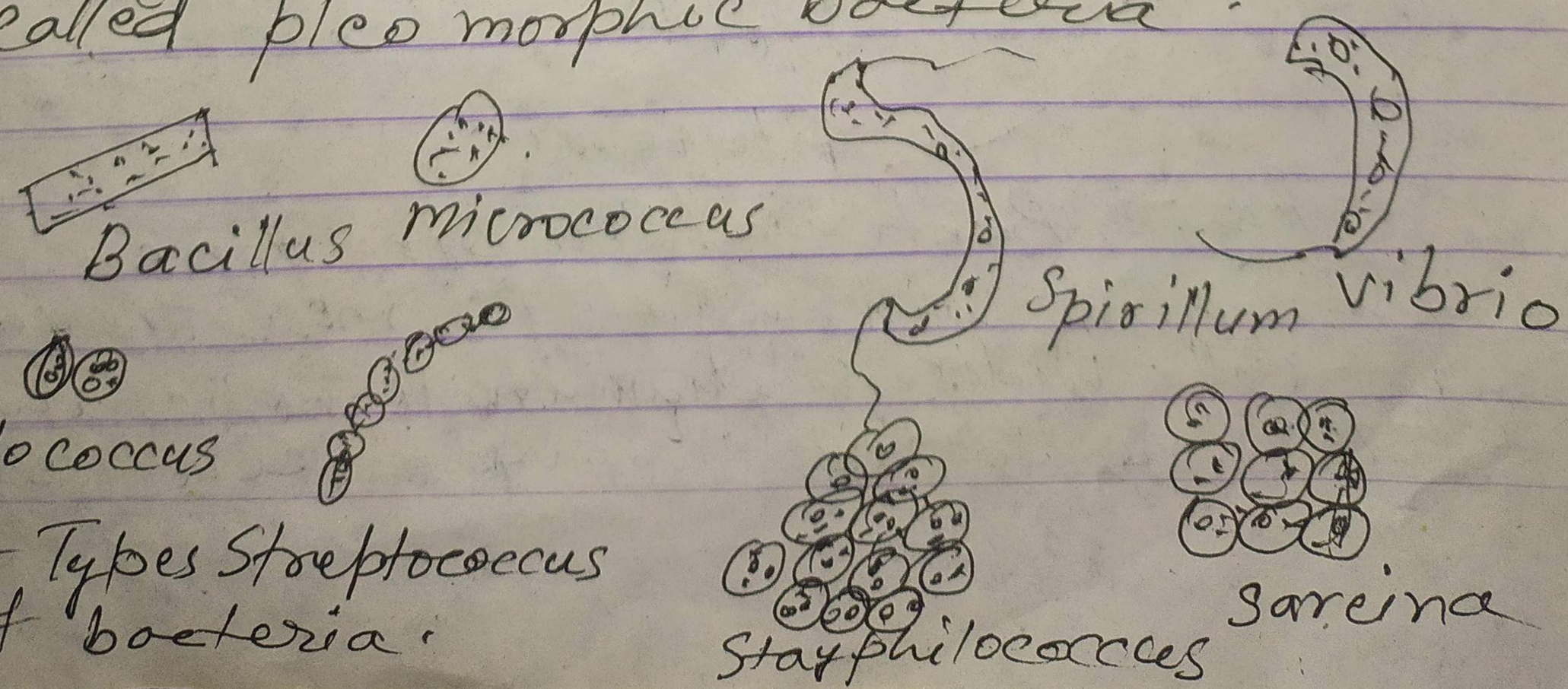

Fig — Types of bacteria.

Cell Structure: The bacterial cell comprise of cell-wall and protoplasm. A thin ~~layer~~ layer of slime is prusent external to the cell wall which under certain circumstances accumulates to the form a thick capsule. It is composed of polysaccharides. The capsulated bacteria are very resistant to adverse conditions and such bacteria are commonly the cause of diseases (pathogenic).

The cell wall is composed of acetylglucosamine and acetylmuramic acid

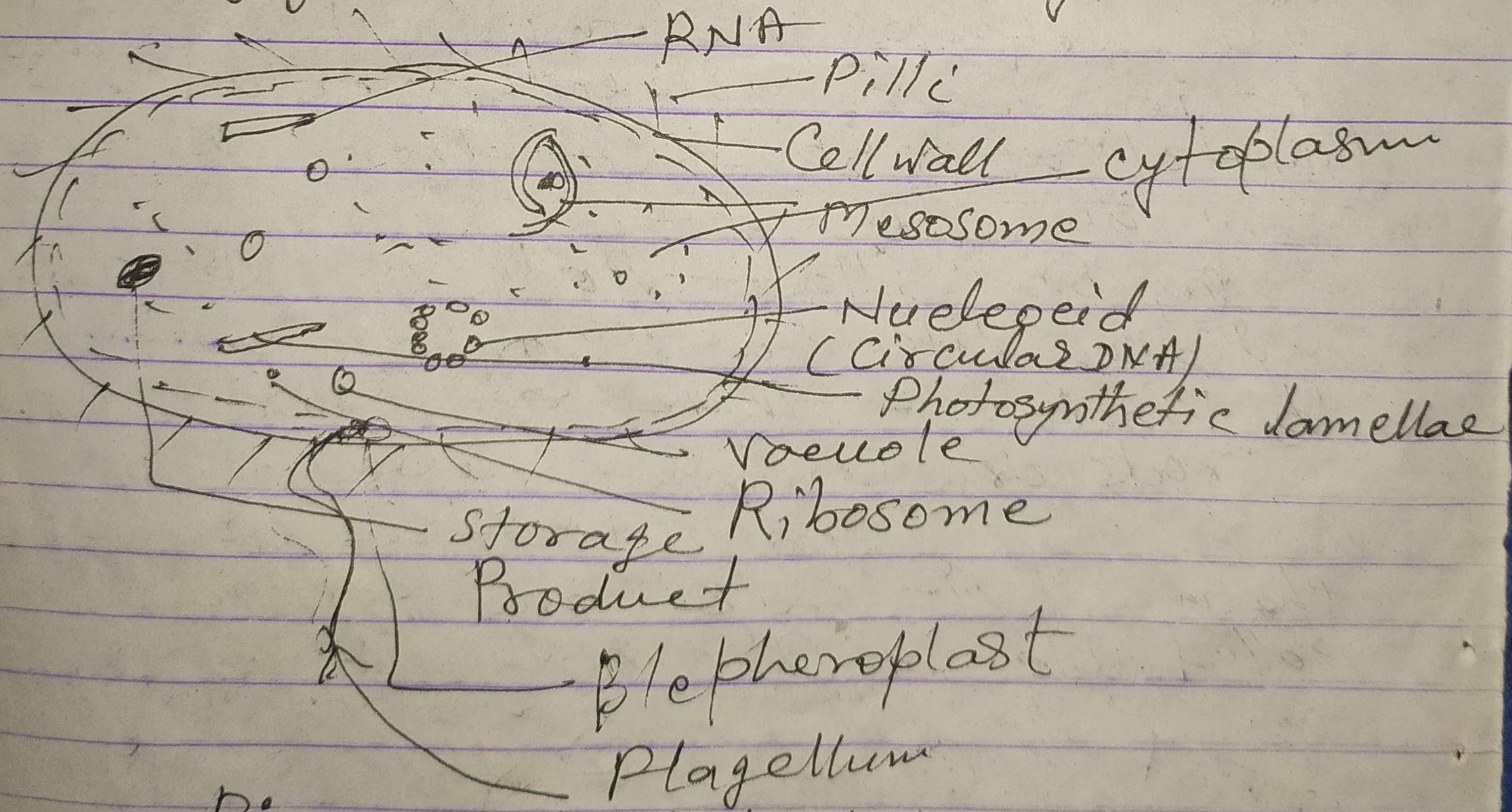

Fig- Bacterial Cell Structure.

The amino acid which is most frequent in cell walls is diaminopimelic acid. Teichoic acids have been repoted