



RASHIDA IQBAL FINANCIAL AID **ORGANIZATION**

MUSCULOSKELETAL 1 MODULE
BIOCHEMISTRY GUIDELINES
1ST YEAR

RAWALPINDI MEDICAL UNIVERSITY

— Underlined topics very important

Biochemistry

- ***Minerals***

Book: Satya + Lecture notes

- Important minerals
 - Calcium
 - Phosphorus
 - Copper
 - Zinc
 - Iodine
 - Selenium
 - Iron
- Important questions
 - Calcium level in serum and its regulation
 - Different forms of calcium in body and their percentages
 - Functions of calcium
 - Hormonal regulation of calcium and phosphorus
 - Menkes and Wilson disease
 - Functions of zinc and selenium
 - Mineral involved in wound healing
 - Minerals involved in antioxidant reaction (zinc and selenium). Why?
 - Sources of iodine and its function
 - Graves' disease

- ***Vitamins***

Book: Lippincott + Satya

- Classification of vitamins (table from Lippincott)
- Vitamin C functions
- Scurvy
- Antioxidant vitamins
- Active forms of all vitamins
- Functions of thiamine
- Types of beri beri
- Pellagra and why it is called 4D?
- Why niacin is not a vitamin?
- Absorption and transport of vitamin A and D
- Functions of vitamin A
- Visual cycle
- Hypervitaminosis A
- Formation of vitamin D
- Difference between rickets and osteomalacia
- Blood clotting factors which require vitamin K for activation
- Why vitamin K is injected into new born?
- What is tocopherol?

REMEMBER RIFAO TEAM IN YOUR PRAYERS.

Regards,
Alishba Shezal Ali,
RIFAO Publications Representative 46.

This document was made on
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