**Exam questions sample:**

Q1. What is pathology and who are pathologist?

Answer: Pathology is the science/study of diseases by scientific methods, in which it concentrates on the structural and functional changes in body organs, tissues, and bodily fluids that cause abnormality and disease.

* Pathologists are specialised medical practitioners who investigate to determine the cause of a disease and how it can affect the body based on the signs and symptoms expressed by the patient.
* Pathologists may use a sample from the patient as clues by examining the abnormal changes in a certain sample.

Q2. What is the importance of gaining pathological knowledge?

Answer: Studying pathology will provide the knowledge to understand

* The mechanism of diseases
* The classification of diseases
* The diagnosis of a disease
* Methods of treatment
* Monitoring the progress of a disease
* Determining prognosis
* Understanding & evaluating possible complications

Q3.What is hypertrophy?

Answer: It is an adaptive cell response to injury.

* Means an increase size of cell or tissue.
* Occurs when the tissue cells cannot increase in number.
* Cause: exposure of the tissue to an increased work load/ functional demand.
* Types:
1. Physiological: muscle hypertrophy in athletes (excessive exercise).

Or by specific hormonal stimulation, such as Hypertrophy of uterine muscles during pregnancy (physiological).

1. Pathological:
* Adaptive: myocardum hypertrophy in chronic hypertension.
* Compensatory: hypertrophy of one kidney after removal of the other kidney.