

## **LESSON PLAN 2 – CELL INJURY & CELL DEATH**

### **PRE - Homework:**

- Please READ Chapters 2 and 3 – Core Pathology, Stevens et al, 2009
- Refer to Activity Book and answer ALL questions.

### **INSTRUCTIONS for CLASS ACTIVITIES:** - Work in pairs.

#### **Activity A:** (40 minutes)

READ Chapters 2 and 3 and briefly DISCUSS the important concepts.

#### **Activity B:** (50 minutes)

Using this BLOG, ANSWER the following:

Chapter 2: “cells are constantly exposed to changes in their environment” .....due to **physiological stimuli** or **pathological stimuli**. DISCUSS this statement.

1. STATE the causes of pathological stimuli.
2. “cells respond to damaging stimuli by extending **adaptive processes**”, pg 9 – 18
  - Atrophy, hypertrophy, involution, hyperplasia, metaplasia. EXPLAIN these adaptations.
3. GIVE a CLINICAL example for each of the above adaptations.

#### **Activity C:** (50 minutes)

Using this BLOG, ANSWER the following:

#### **Chapter 3:** (50 minutes)

4. Irreversible cell injury due to severe insult often leads to **pathological** cell death, PG 19 -34.  
There are 2 types. DISCUSS each type.
5. Apoptosis has 4 phases: induction, effector, degradation & phagocytosis. Briefly EXPLAIN each.
  - GIVE 2 CLINICAL examples of apoptosis.
6. There are several different patterns of necrosis. DESCRIBE these.
  - GIVE 2 CLINICAL examples of necrosis.

**NB. NB. THIS ASSIGNMENT IS FOUND IN THE DISCUSSION TOOL – PLEASE REFER.**

**Homework:** READ Chapters 5 and 6 and ANSWER questions on Inflammation and Healing in Activity book.