## Pathology Lecture 1 – MCQs

1. Which of the following best describes hypertrophy? A. Increase in cell number B. Decrease in cell size C. Increase in cell size D. Change from one cell type to another E. Cell death due to injury ■ Answer: C. Increase in cell size 2. What is the main cause of cardiac hypertrophy in hypertension? A. Viral infection B. Increased functional demand C. Vitamin A deficiency D. Decreased workload E. Genetic mutation ■ Answer: B. Increased functional demand 3. Which of the following tissues cannot undergo hyperplasia? A. Skeletal muscle B. Liver C. Epithelium D. Uterus E. Prostate ■ Answer: A. Skeletal muscle 4. What is the definition of hyperplasia? A. Decrease in cell number

B. Increase in cell number

C. Increase in cell size D. Change in cell type E. Cell death ■ Answer: B. Increase in cell number 5. Which of the following is a physiologic example of hyperplasia? A. Endometrial hyperplasia due to excess estrogen B. Benign prostatic hyperplasia C. Breast glandular growth during pregnancy D. HPV-induced wart formation E. Metaplasia in the esophagus ■ Answer: C. Breast glandular growth during pregnancy 6. Which of the following mechanisms is involved in atrophy? A. Increased protein synthesis B. Increased degradation of proteins C. Increased cell division D. Stem cell reprogramming E. Increased blood supply ■ Answer: B. Increased degradation of proteins 7. Which of the following best defines metaplasia? A. Increase in number of cells B. Decrease in cell size C. Change from one cell type to another D. Cell death due to necrosis E. Increased organ size ■ Answer: C. Change from one cell type to another

8. Which vitamin deficiency is associated with squamous metaplasia ir bronchi?
A. Vitamin D
B. Vitamin B12
C. Vitamin A
D. Vitamin C
E. Vitamin E
■ Answer: C. Vitamin A
9. What is the most common cause of cell injury?  A. Genetic mutations
B. Oxygen deprivation
C. Chemical agents
D. Physical trauma
E. Aging
■ Answer: B. Oxygen deprivation
<ul><li>10. Which of the following is a pathologic cause of hyperplasia?</li><li>A. Skeletal muscle growth in athletes</li></ul>
B. Endometrial hyperplasia due to estrogen
C. Uterine enlargement during pregnancy
D. Liver regeneration after partial resection
E. Atrophy after immobilization
■ Answer: B. Endometrial hyperplasia due to estrogen