Exam 4 Breakdown– summer 2025

Ch 9 – Immune physiology (25 ques)

4 on general immune cells (organs) or cells of body

2 on external innate immunity (see flow diagram)

7 on internal innate immunity (see flow diagram)

5 on adaptive immunity (T-cells and B-cells) (see flow diagram)

4 on classification of immunity into passive vs active

2 on autoimmune disorders

1 on sequence of immunity (see flow diagram)

Ch 10 – Kidney physiology (25 ques)

5 on reabsorption of substances from the different parts of the nephron (PCT, descending and ascending loop, DCT, and collecting duct), including the influences of hormones (ADH, Aldosterone)

2 on what stimulates ADH and renin secretion

5 on general urinary system vocabulary (afferent and efferent arteriole, glomerulus, peritubular capillaries,

filtrate, reabsorption, secretion, excretion)

3 on GFR regulation

If BP less than 80 mmHg, GFR decreases

IF BP greater than 160, GFR increases

If BP is between 80 – 160, GFR stays same

2 on diuretics and where they act on nephron

4 on kidney diseases or disorders

4 on autonomic regulation of detrusor muscle and proximal urethral sphincter (PUS)

Under parasympathetic control – detrusor contracts & PUS relaxes

Under sympathetic – detrusor relaxes, PUS contracts