

Anatomy of the Kidney

There are three regions:

- renal cortex (outer)**
- renal medulla (middle)**
- renal pelvis (inner)**

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Anatomy of the Kidney

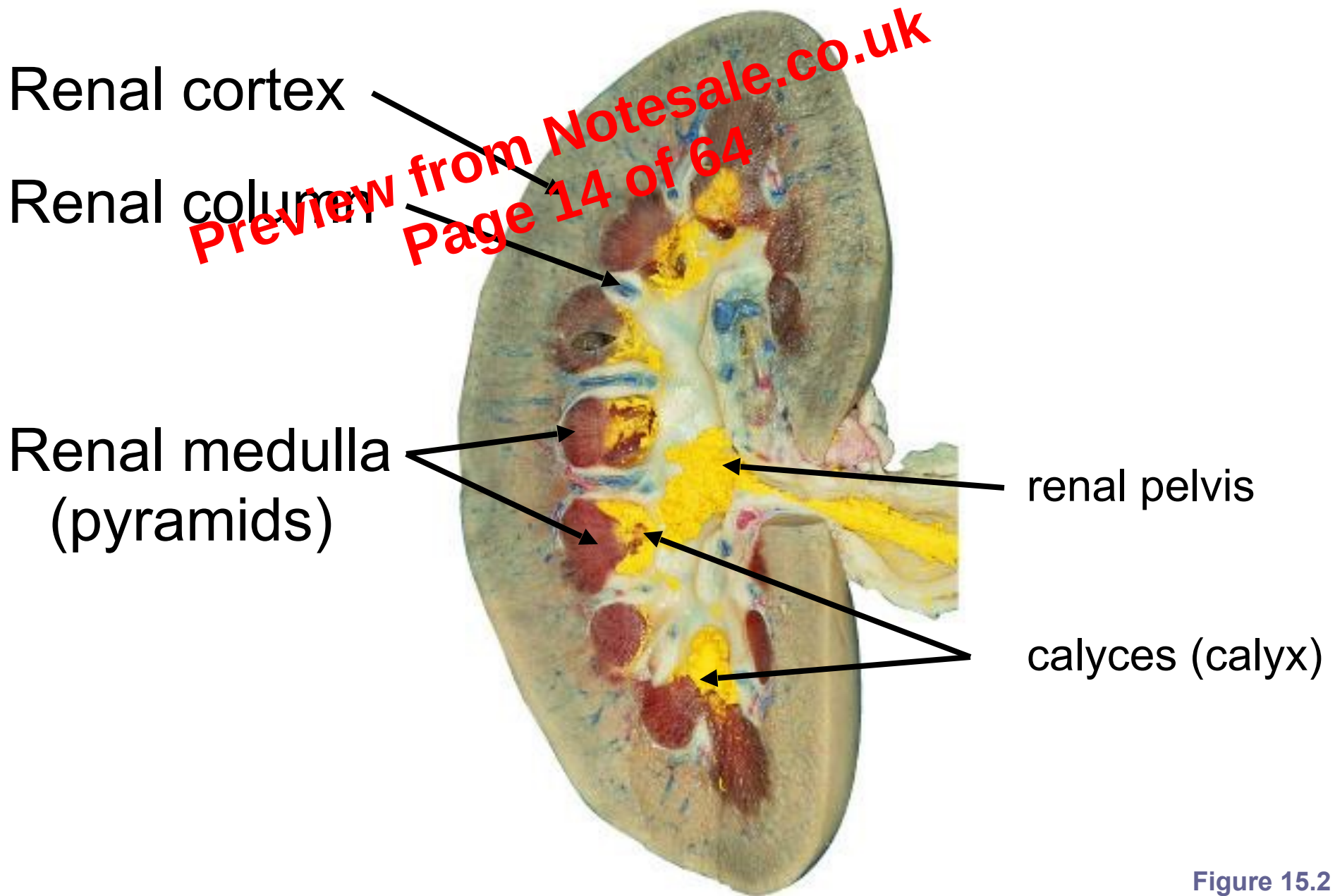


Figure 15.2

Blood Flow in the Kidneys

Very rich blood supply to kidneys

- 1/4 of blood in body goes through per minute
- continuously cleanses blood
- adjusts composition of blood

Parts of the Renal Tubule (beige part)

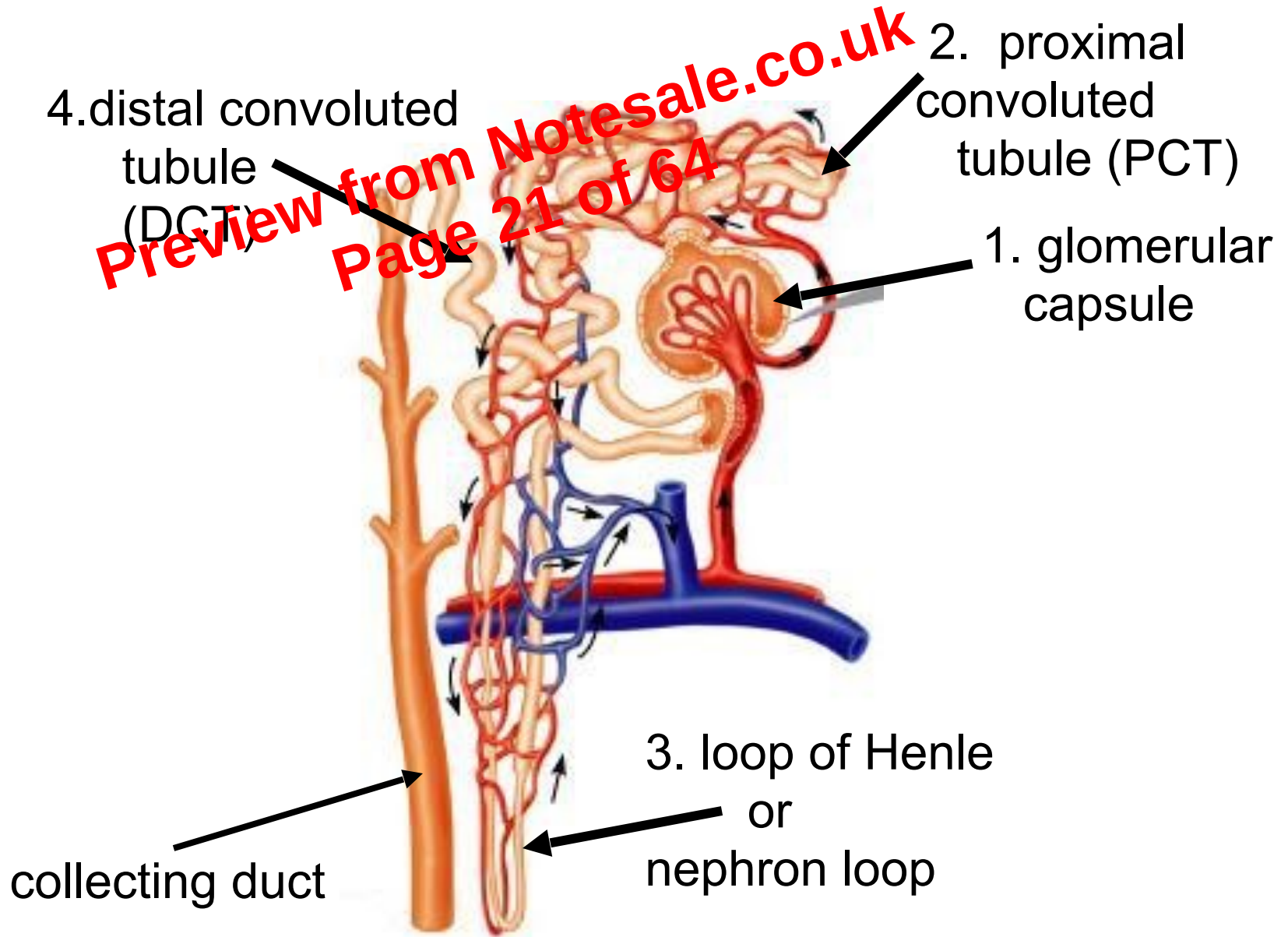


Figure 15.3

Urinary Bladder

- smooth, collapsible, muscular sac
- temporarily stores urine

Trigone – triangular area with three openings

-two from ureters

-one from urethra

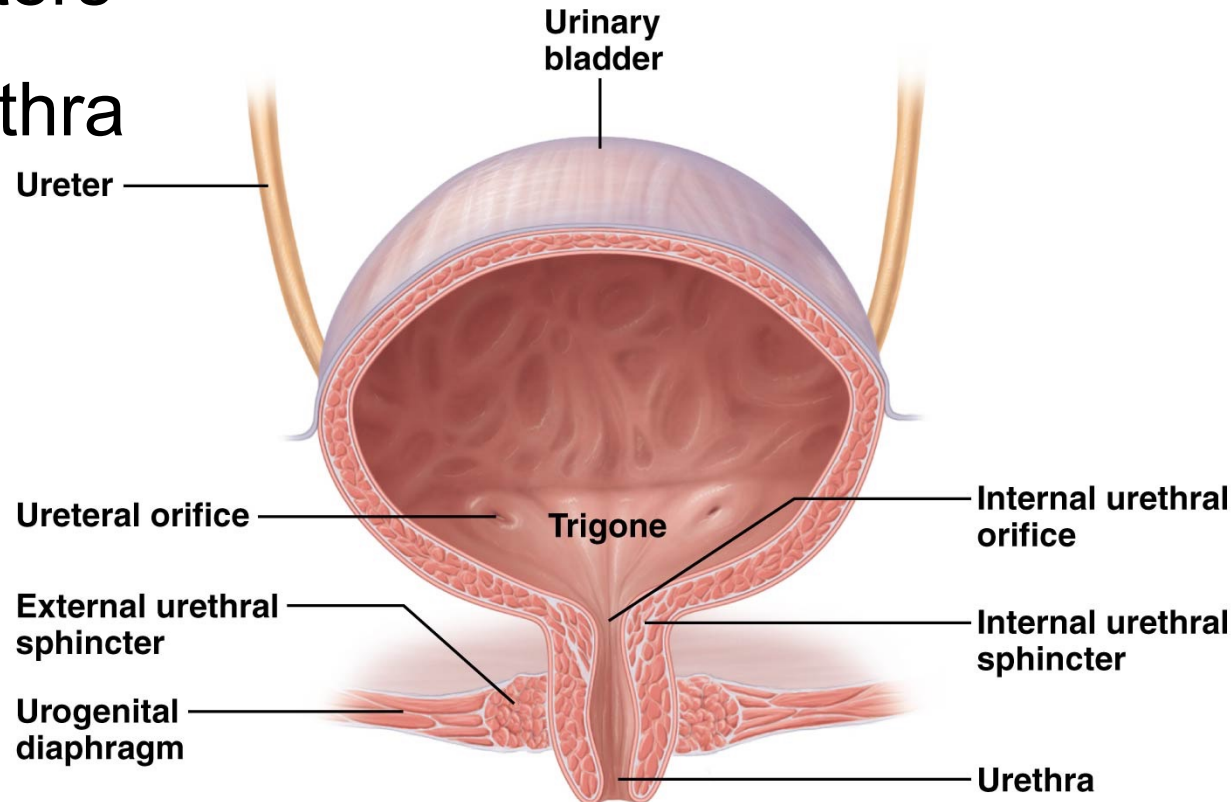
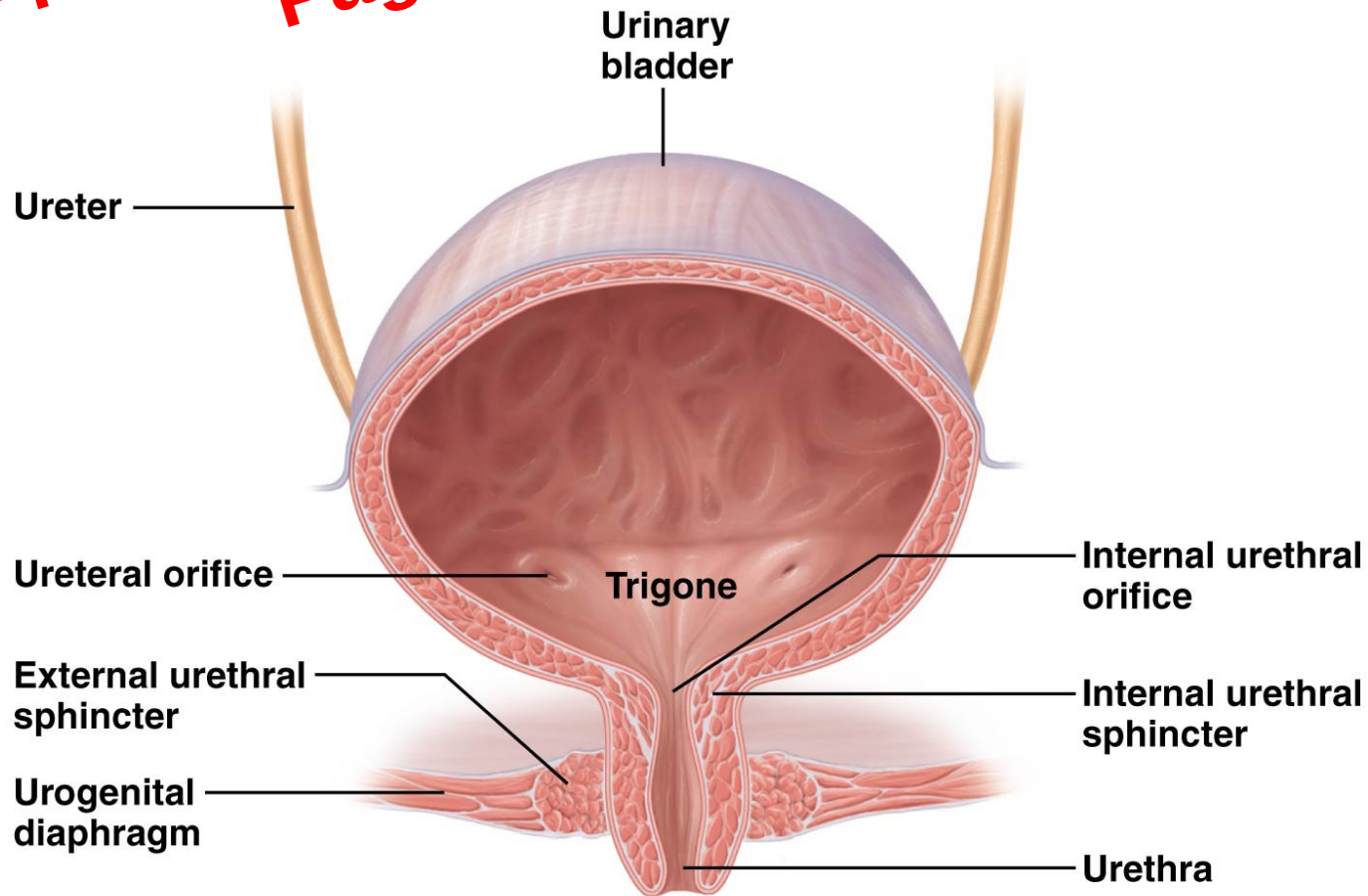


Figure 15.6

Urethra

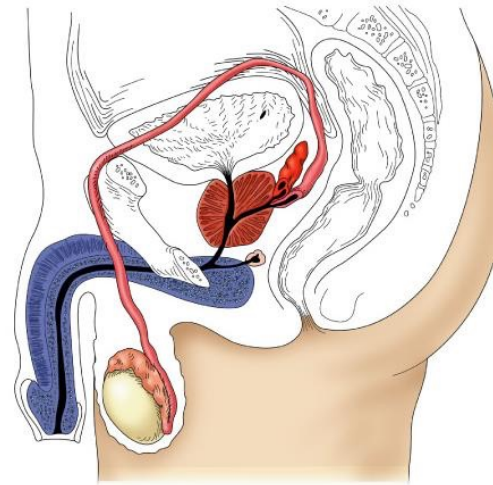
1. Internal urethral sphincter (involuntary)
2. External urethral sphincter (voluntary)



Urethra Gender Differences

Function

- Females – only carries urine
- Males – carries urine and semen



Urine Formation Processes

Tubular Secretion

(3)

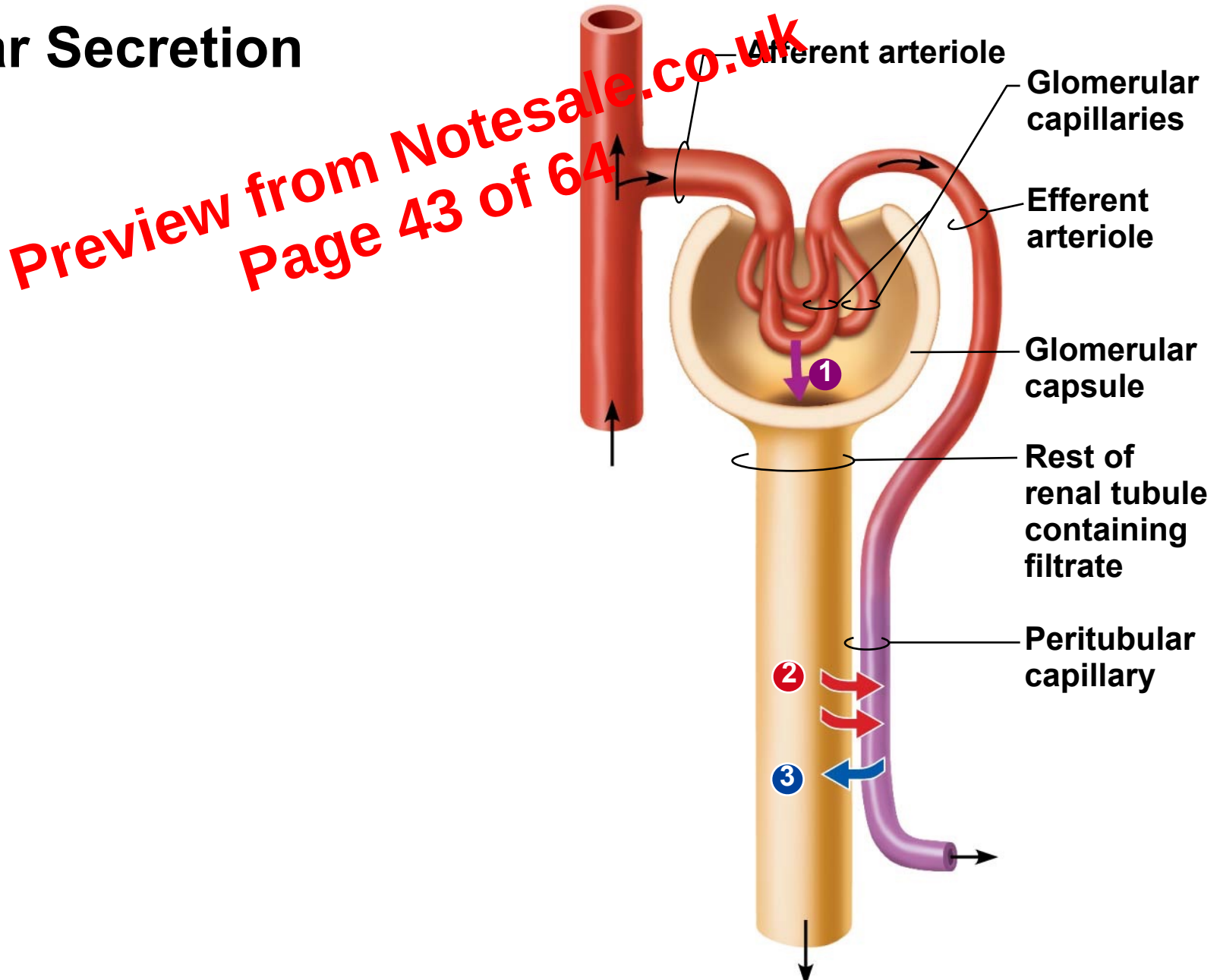


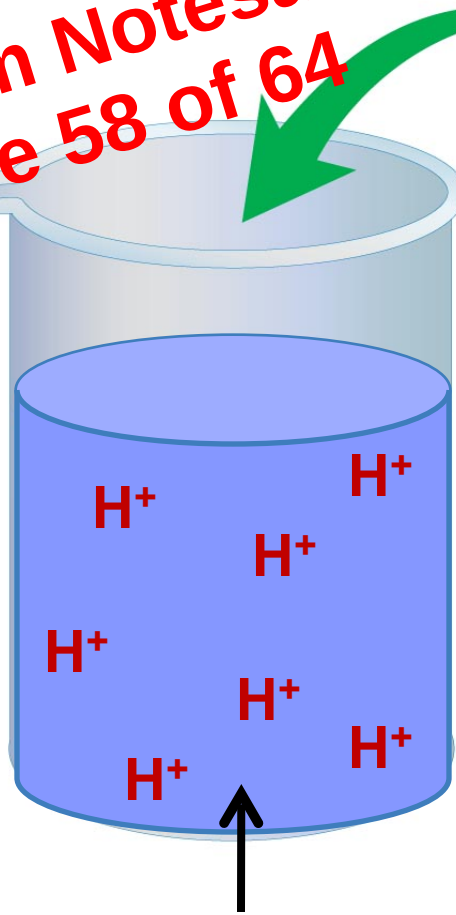
Figure 15.4

Blood Buffers

rises = basic
falls = acids

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pH normally between 7.35
-7.45



Blood plasma

Assignments

Text Book Reading:

Chapter 15

Page 511-531

colouring book

chapter 15

Q: #1,2,3,5,16

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