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**QUESTION 1**

1.

B

2.

C

3.

A

Granular casts are composed of plasma protein aggregates and cellular remnants. Granular casts appear as cylinders of coarse, or fine, highly refractive particles. Broad casts or "renal failure" casts are formed in the collecting ducts as the result of urinary stasis and are two to six times the size of other types of casts. Any type of cast can be a broad cast. Broad casts are typically seen in patients with advanced renal failure. Hyaline casts, the type most commonly seen in urine sediment, have a refractive index similar to the urine in which they are suspended. For this reason, hyaline casts will appear almost invisible under brightfield microscopy, but are easily of

seen by phase-contrast microscopy.

Match the following descriptions of casts with their appropriate name:

1.

Casts with highly refractive particles

2.

"Renal failure" cast

3.

Low refractive index

A. Hyaline casts

B. Granular Casts

C. Broad

Correct Answer: ABC

QUESTION 2

What additional fraction would be seen if plasma rather than serum was subjected to electrophoresis:

A. Alpha-1 antitrypsin

B. Alpha-2 macroglobulin



C. Fibrinogen

D. Gamma globulins

Correct Answer: D

QUESTION 3

Creatinine clearance tests are utilized to estimate the glomerular function of the kidney. The creatinine clearance calculation is defined as the volume of plasma that is cleared of creatinine by the kidney per unit of time and uses the following

formula:

creatinine clearance = $\frac{\text{Urine creatinine conc} \times \text{Volume}}{\text{Plasma creatinine conc}}$

Creatinine clearance measurements have a recommended specimen requirement = 24- hour urine collection.

Which of the following tests would be useful in the assessment of glomerular filtration:

A. 24 hour urine protein

B. Creatinine clearance

C. PSP test

D. Urea clearance

Correct Answer: C

QUESTION 4

Diagnosis of malaria may require thick smears as well as conventional thin blood smears.

A definitive diagnosis of malaria can be made by:



A. Serological testing

B. Culture techniques

C. Demonstration of the organisms in peripheral blood



D. Biochemical reactions

Correct Answer: C

QUESTION 5

1 SD = 68.3%, 2 SD = 95.5%, 3 SD = 99.7

As defined by a Gaussian distribution curve, what percentage of values would be expected to fall within two standard deviations of the mean:



- A. 75%
- B. 85%
- C. 95%
- D. 100%

Correct Answer: C

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