

Paper=

chemical pathology

Instructor name=

Sir Adnan

Student name=

Zahid shah

I'd =

14884

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Section

1) Two students of MLT are talking about the use of cholesterol in food one says its good to have cholesterols in food the other said use of more cholesterol is not good for our health, they both asked from his class teacher and he replied “having high triglyceride levels in your blood can make you more likely to have _Heart disease _.

- A. Arthritis
- B. Feet infections
- C. Heart disease
- D. Beri Beri

2) Focal segmental glomerulosclerosis is a disease that scars the__ Glomeruli .

- A. Bowman's capsule
- B. Glomeruli
- C. Pancreases
- D. Liver

3) Minimal change disease "MCD" is the most common cause of nephrotic syndrome in __children_.

- A. Women
- B. Men
- C. Children
- D. Aged

4) The main signs or symptoms make up nephrotic syndrome is/are_____ All of the above _.

- A. Proteinuria
- B. Hyperlipidemia
- C. Hypoalbuminemia
- D. All of the above

5) To diagnose a patient nephrotic syndrome, you should go for?

- A. Urine Test
- B. Blood Test
- C. Biopsy
- D. All of the above

6) Your class teacher gives you a history of patient such that a patient having yellow skin and body fluid that is the by-product of RBCs breakdown, Red blood cells typically survive for about 120 days before the body breaks them down, an increased breakdown of RBCs made the skin and body fluids colour yellow, this is due to__bilirubin_____.

- A. Bilirubin
- B. Cytokines
- C. Alpha blockers
- D. Side effects of NSAIDs

7) New-borns with jaundice are carefully monitored and generally improve within _ 48 to 72___ hours.

- A. 04 to 07
- B. 10 to 12
- C. 12 to 24
- D. 48 to 72

8)All are true regarding Bilirubin Test Except?

- A. Is used to detect an increased level in the blood
- B. Determine the cause of jaundice
- C. Cannot diagnose blockage of the bile ducts
- D. diagnose conditions

9) A patient of malabsorption syndrome is admitted in LRH ward and you have to test the condition, of all the possible diagnostics test the most reliable test of malabsorption is _____

- A. **Stool test**
- B. Blood test
- C. Berth test
- D. Imaging

10) The Urine Albumin to Creatinine Ratio (UACR) is a test that estimates how much albumin is excreted in a _____ period without requiring patients to collect urine for a whole day.

- A. 12-hour. 48-hour
- B. **24-hour.** 72-hour

11) Which option are not true about kidney functions?

- A. Filter waste materials and toxin from the blood
- B. **Production of vitamin E**
- C. Red Blood Cells (Erythropoietin) formation
- D. Synthesize hormones that regulate blood pressure

12) Structural and Functional unit of the kidney is?

- A. Renal corpuscle
- B. Renal tubule
- C. **Nephron**
- D. All of the above

13) Normally: The pH of urine

- A. acidic
- B. alkaline
- C. varies from acidic to alkaline
- D. Varies from alkaline to acidic

14) Uric acid is the end product of catabolism.

- A. Thymine
- B. Pyrimidin
- C. Purine
- D. Urea

15).....is known as the good cholesterol.

- A. HDL
- B. LDL
- C. VLLDL
- D. Triglycerides

(Section B)

Q1 What do you know about proteinuria?

Answer=

Proteinuria=

Proteinuria is increased level of protein in the urine. This condition can be a sign of kidney damage. Protein

Which help build muscle and bone, and regulate the amount of fluid in the blood, combat infection and repair tissue – should remain in the blood. If protein enters the urine they ultimately leave the body, which isn't healthy.

Causes of Proteinuria =

The causes of Proteinuria may be included dehydration, inflammation, and low blood pressure. In addition, kidney stones in the urinary tract can cause Proteinuria.

- =immune disorder like lupus in Goodpasture syndrome.
- =acute inflammation of the kidney (glomerulonephritis)
- =cancerous of plasma cell (multiple myeloma)
- =intravascular hemolysis, which is the destruction of red blood cells and release of hemoglobin in the blood stream.
- =cardiovascular disease
- =poisoning
- =trauma
- =kidney cancer

Also, most serious illnesses can result in Proteinuria.

Symptoms of Proteinuria =

- =more frequent urination
- =shortness of breath
- =tiredness
- =Nausea and vomiting
- =swelling in the feet, face, belly or ankle
- =lack of appetite
- =muscle cramping at night.

Q2 explain Ketonuria and phenylketonuria in detail?

Answer =

Ketonuria=

Ketonuria happens when you have high ketone levels in your urine. This condition is also called ketonuria and acetonuria.

Ketonuria is most common in individual such as, diabetes, particularly type 1 diabetes mellitis. It mostly occur in female who are pregnant or breastfeeding.

Of keton level too high for too long, this your blood become acidic. It can harmful to your health.

Causes of Keatonuria =

There are many cause of Keatonuria such as,

=pregnancy

=illness or infection

=Drinking excess alcohol

= starvation

=heat attack

=emotional or physical trauma

Symptoms of ketonuria =

=thirst

=fruit smelling breath

=fatigue

=frequent urination

=nausea and vomiting

Phenylketonuria=

Phenylketonuria is a rare genetic condition that causes an amino acid called Phenylketonuria to build up in the body. Amino acids are the building blocks of protein.

Phenylalanine hydroxylase is an your blood uses it and it convert Phenylalanine into tyrosine, which your blood needs to create neurotransmitters such as epinephrine, norepinephrine and dopamine. phenylketonuria is cause by a defect in the gene that help to Phenylalanine hydroxylase.

Causes of Phenylketonuria =

Phenylketonuria is inherited condition cause by defect in the PAH gene. The PAH gene helps to create Phenylalanine hydroxylase. The enzyme responsible for the breakdown of Phenylalanine .

Symptoms of Phenylketonuria =

Phenylketonuria symptoms can range from mild to severe.

- =seizures
- =tremors or trembling and shaking
- =stunted growth
- =hyperactivity
- = skin condition such as eczema

Q3 Enlist all the possible cause of Cushing syndrome?

Answer =

Cushing syndrome =

Cushing's syndrome occur when your body is produced too much high levels of hormones cortisol for long time, Cushing syndrome sometime called hypercortisolism. May be caused by the oral corticosteriod medication.

The condition occur when your body makes too much high cortisol on it's own.

Causes of Cushing syndrome =

- = A benign tumor of adrenal gland
- = A benign tumor of the pituitary gland
- = A benign tumor of the lung and other organ
- = extensive use of cortisone medication
- = administration of the ACTH and corticosteriods
- = primary hyperplasia of both adrenal gland

=excessive secretion of the adrenal androgen

= Exogenous Glucocorticoid administration