**Assignment**

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**Course Title: Human Physiology Instructor: Dr Sara Naeem Total Marks: 80**

**Questions:**

1. Take any viral disease as an example. How will you classify different types of immunity keeping your example in mind.

1. Explain any medical condition of lymph nodes. Give a lab test report as well if needed.
2. Give different types of ECG’s for heart diseases.
3. Give different medical ways of management of kidney stones.

**QUESTION#1:**

**Take any viral disease as an example. How will you classify different immunity keeping your example in mind.**

**ANSWER:**

**VIRAL DISEASE:**

Taking corona viral disease as an example.

**Types of immunity:**

1. Innate immunity
2. Acquired immunity

Acquired immunity further classified into two types:

**Natural:**

1. Passive(maternal)
2. Active(infection)

**Artificial:**

1. Passive( antibody transfer)
2. Active( immunity)

**QUESTION#2:**

Explain any medical condition of lymph nodes. Give a lab test report as well if needed.

**ANSWER:**

**Hodgkin lymphoma:**

It is curable lymphoma.

**Classification:**

1. Nodular sclerosis
2. Mixed cellularity
3. Lymphocyte-depleted sub type
4. Lymphocyte-rich sub type
5. Nodular lymphocyte predominant type

**Signs and symptoms:**

- Drenching night sweats

- Extreme high fever

- Extreme weight loss with in over 6 months.

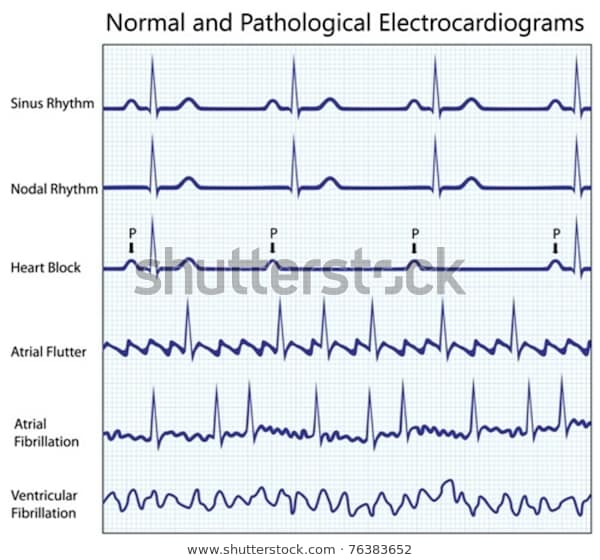
**Lab test:**

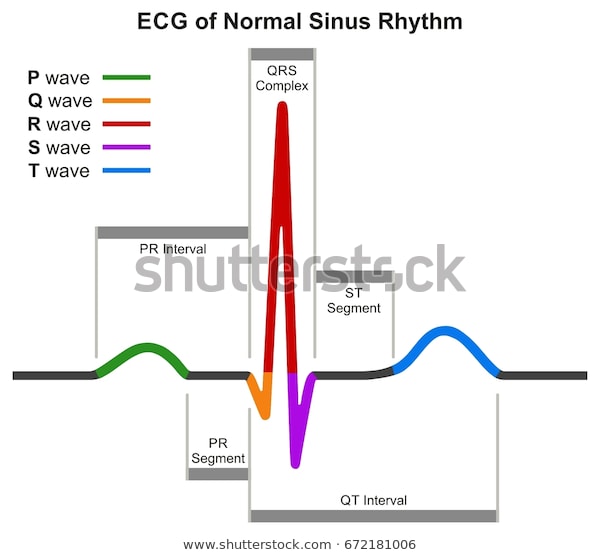
1. **CBL**
2. Low red blood cell count( anemic)
3. Lymphoma ( low white blood cells count)
4. Excess neutrophil
5. eosinophils
6. **Raised ESR**
7. **Raised EDH**
8. **Excisional lymph node biopsy**

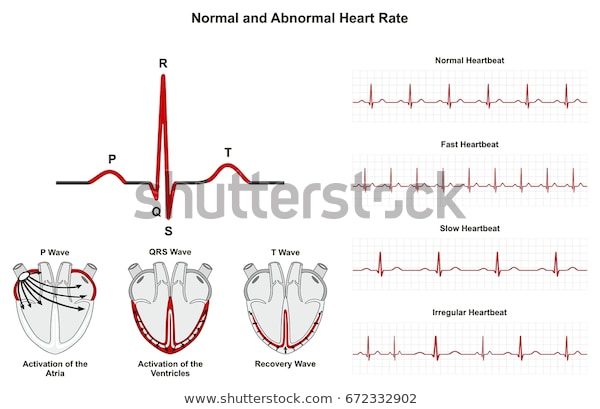
**QUESTION#3:**

Give different type of ECG’s for heart diseases.

**ANSWER:**







**QUESION#4:**

Give different ways of management of kidney stones.

**ANSWER:**

**MANAGEMENT OF KIDNEY STONES:**

Small stones with minimal symptoms:

Most small kidney stones wont require invasive treatment. You may be able to pass a small stone by:

1. **Drinking water:**

Drinking as much as 2-3 quarts a day will keep you urine dilute and may prevent stones from forming.

1. **Pain relievers:**

Passing a small stone can cause some discomfort for which doctors prescribe few pain relievers.

1. **Medical therapy:**

The doctor gives a type of medication that is known as alpha blocker, relaxes the muscle in your ureter,helping you pass the kidney stone more quickly vand with less pain.

**LARGE STONE AND SYMPTOMS:**

Kidney stones that are too big pass on their own or cause bleeding,kidney damage or ongoing urinary tract infections may require non-extensive treatment.

**Using sound waves to breakup stones:**

Certain kidney stones depending on size and location your doctor may recommend a procedure called extracorporeal shock wave lithotripsy ( ESWL)

These sound waves creates strong vibrations that breaks the stones into tiny pieces that can be passed in your urine. This procedure lasts about 40-60 mins and can cause moderate pain.