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Diploma in Pharmacy 2nd Year
Hospital & Clinical Pharmacy
Important Questions
Chapter 9 : Clinical Laboratory Tests

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Chapter 9
Clinical Laboratory Tests
IMPORTANT Questions

Q1. Describe the Clinical Laboratory Tests.

Ans.

Clinical Laboratory Tests

- In diagnosis, monitoring and screening, clinical laboratory test results are a very essential parameter, 70-80% of judgements in diagnosis are based on the laboratory results and analyses.
- Hence, various data are delivered, and it is important for patient care and safety that the doctors are aware with the laboratory tests and clarification of results.
- The laboratory test results also have a role in delivering suitable information to the clinicians that can help them in the precise interpretation of the data.

Q2. Enlist the various Haematological Tests.

Ans.

Haematological Tests

- A hematological test is a blood test. Any test that requires blood or blood parts is a hematological test. These tests can offer information to a doctor about what is happening in the blood. The most common hematological tests include :
  - **Haemoglobin Test : (Hb test)**
  - **RBCs Count**
  - **Hematocrit (Hct)**
  - **White Blood Cell or Total Leucocyte Count (TLC) etc.**

Q3. Enlist the various Liver Function Tests (LFT Test)

Ans.

Liver Function Tests (LFT Test)

- Liver function test is performed to estimate the dysfunctions of liver
- Several testes are performed under liver function test.
- Like
  - Serum Bilirubin ,
  - serum (Plasma) proteins ,
  - Alkaline Phosphatase (ALP) ,
  - Serum Glutamic Oxaloacetic transaminase (SGOT) or Aspartate transaminase (AST),
  - Serum Glutamate Pyruvate Transaminase (ALT) etc.

Q5. Enlist the various Thyroid Function Tests (TFT Test)

Ans.

Thyroid Function Tests (TFT test)

→ There are many different blood tests which are performed to check thyroid gland functioning .

→ some of them are following

1) **TSH (thyroid stimulating Hormone) test**
2) **T3 or Triiodothyronine test**
3) **T4 or thyroxine Test etc.**

Q6. Write the Tests associated with Cardiac Disorders.

Ans.

Tests associated with Cardiac Disorders

→ Many different tests are used to diagnose heart disease. Besides blood tests and a chest X-ray, tests to diagnose heart disease can include :

- **Electrocardiogram (ECG or EKG) :** This test measures the electrical activity of the heart and can detect abnormal heart rhythms, damage to the heart muscle, and other problems.
- **Echocardiogram :** This is an ultrasound test that uses sound waves to create images of the heart. It can be used to evaluate the size and shape of the heart, the thickness of the heart muscle, and the function of the heart valves.
- **Stress test :** This test involves exercising the heart to see how it responds. It can be done on a treadmill or with medication. It can be used to detect problems with blood flow to the heart or abnormal heart rhythms.
- **Cardiac catheterization :** This test involves inserting a thin, flexible tube (catheter) into a blood vessel in the arm or leg and guiding it to the heart. It can be used to diagnose blockages in the coronary arteries or to measure pressures within the heart.
- **Holter monitor :** This is a portable device that records the heart's electrical activity over a period of 24-48 hours. It can be used to detect abnormal heart rhythms that may not show up on a regular ECG.
- **Cardiac MRI :** This test uses a powerful magnetic field and radio waves to create detailed images of the heart. It can be used to evaluate the size and function of the heart and to detect problems such as blockages or damage to the heart muscle.
- **CT scan :** This test uses X-rays to create detailed images of the heart and blood vessels. It can be used to detect blockages in the coronary arteries or to evaluate the size and function of the heart

Q7. Write the Pulmonary Function Tests.

Ans.

Pulmonary Function Tests

- Pulmonary Function Tests (PFTs) are a group of diagnostic tests used to evaluate the function of the lungs. These tests can help diagnose a range of respiratory conditions and can help monitor the progression of lung disease.
- The most common types of PFTs include :
  - **Spirometry :** This test measures the amount of air a person can inhale and exhale, and how quickly they can do it. It can help diagnose conditions such as asthma and chronic obstructive pulmonary disease (COPD).
  - **Lung volume measurements :** These tests measure the amount of air in the lungs, both when they are full and when they are empty. They can help diagnose conditions such as interstitial lung disease and sarcoidosis.
  - **Diffusion capacity :** This test measures how easily oxygen passes from the lungs into the bloodstream. It can help diagnose conditions such as pulmonary fibrosis and emphysema.
  - **Exercise testing :** This test measures how well the lungs function during physical activity. It can help diagnose conditions such as exercise-induced asthma and evaluate the effectiveness of treatments

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