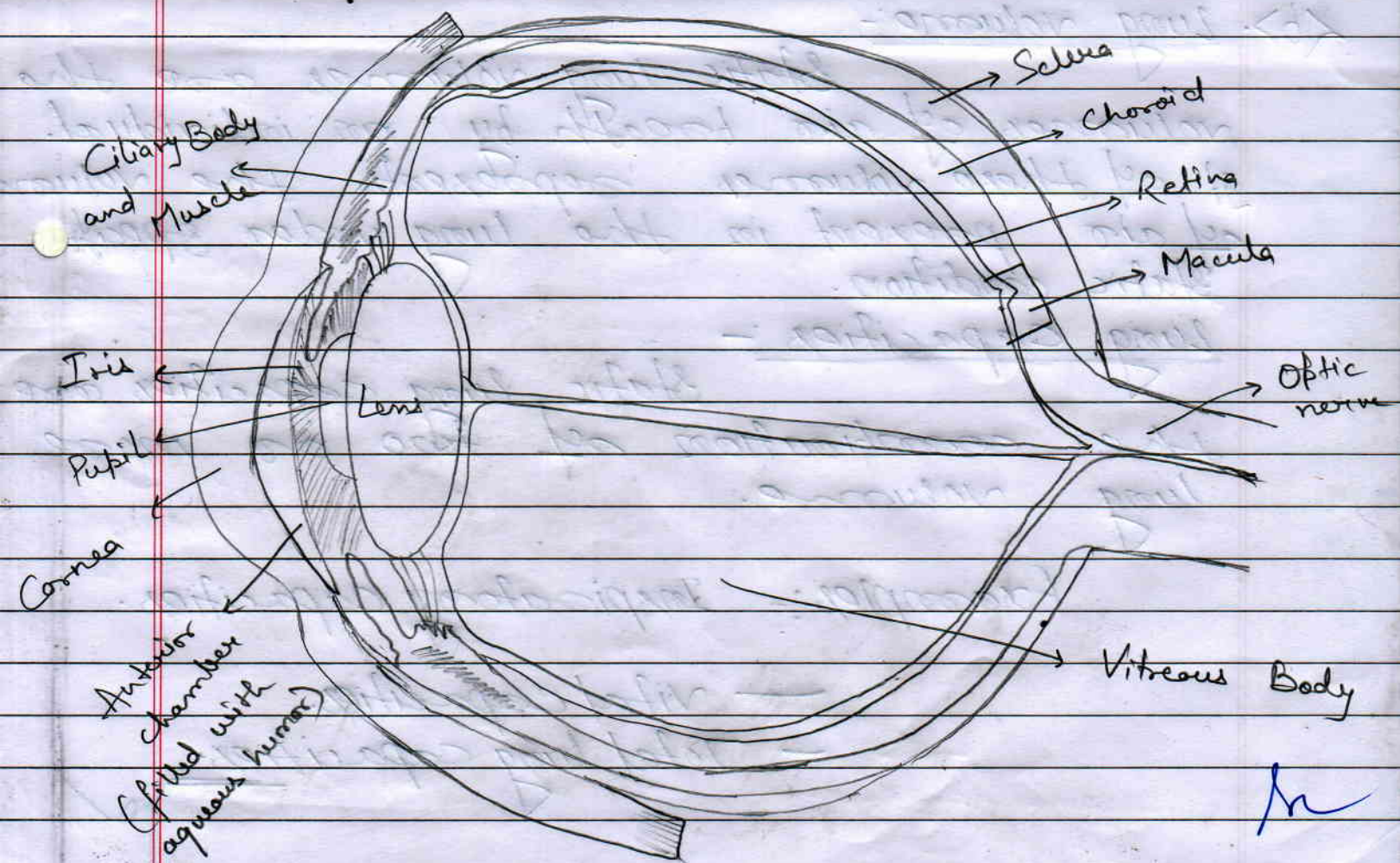


1st mechanism involved in vision:-

- ⇒ Eye is the organ of sight or vision.
- ⇒ When the ray of light incidents on retina then bleaching or splitting occurs in rhodopsin pigment of rod cells during which impulse is generated i.e. code to brain by optic nerve.

Rhodopsin $\xrightarrow{\text{Ray of light}}$ Retinene + scotopsin + Energy

Brain ← optic nerve



2 Ans (a)

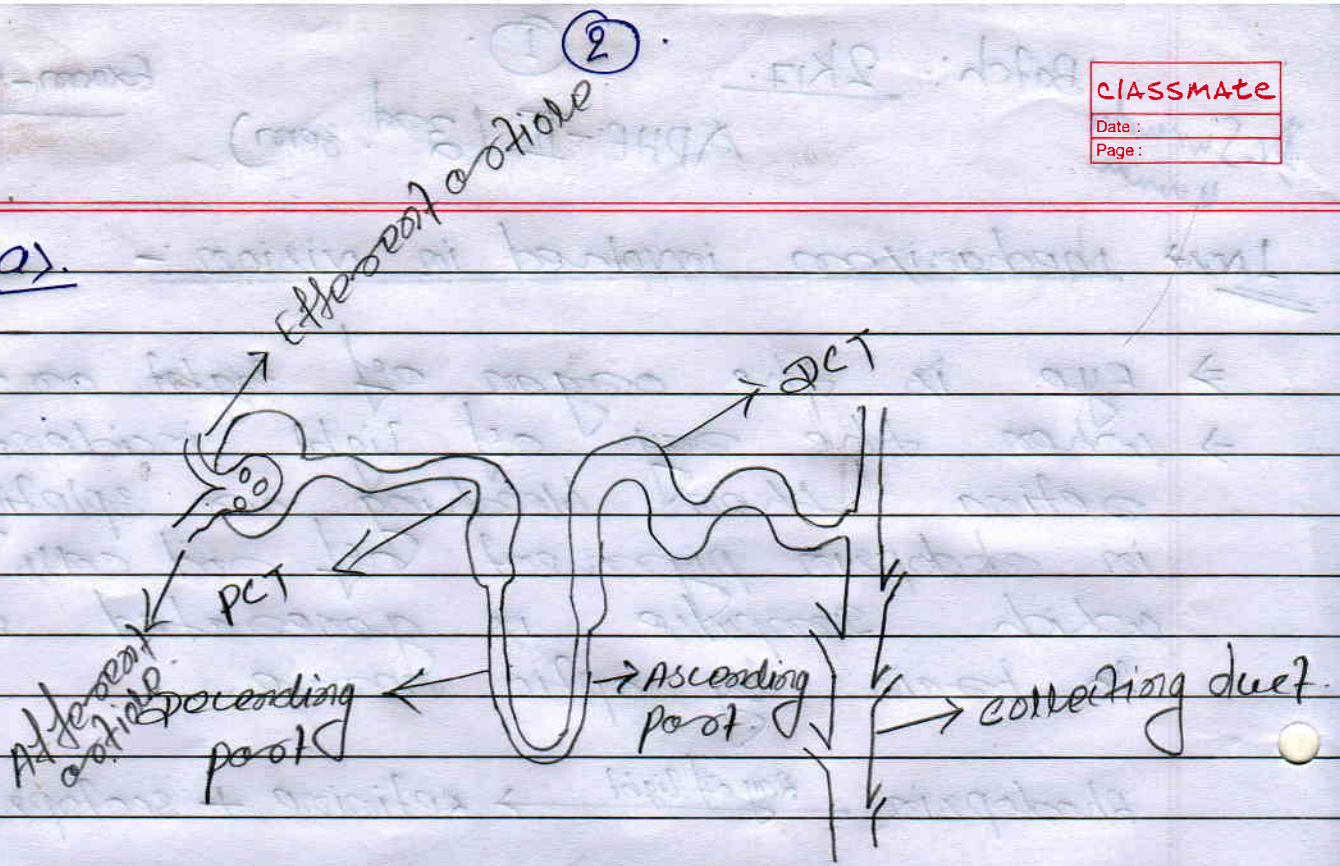


Diagram of nephron

(b) Lung volume:-

Static lung volumes are the volumes of air breath by an individual. It of these volumes represents the volume of air present in the lung under specific static condition.

Lung capacities:-

Static lung capacities are the combination of two or more lung volume.

Examples:- Inspiratory capacities.

- Vital capacities.
- Total lung capacities.

✓

Q75 Function of pancreas :-(i) Digestion of lipids :-

Lipolytic enzymes present in pancreatic juice which helps for digestion of lipid.

(ii) Digestion of carbohydrates :-

Like salivary amylase, the pancreatic amylase also converts starch into dextrin and maltose.

Function of Gallbladder :-(i) Storage of bile :-

Bile is continuously secreted from liver but it is released into intestine only intermittently and most of the bile stored in gall bladder.

(ii) Concentration of bile :-

Bile is concentrated while it is stored in gall bladder.

Function of Stomach :-Storage function :-

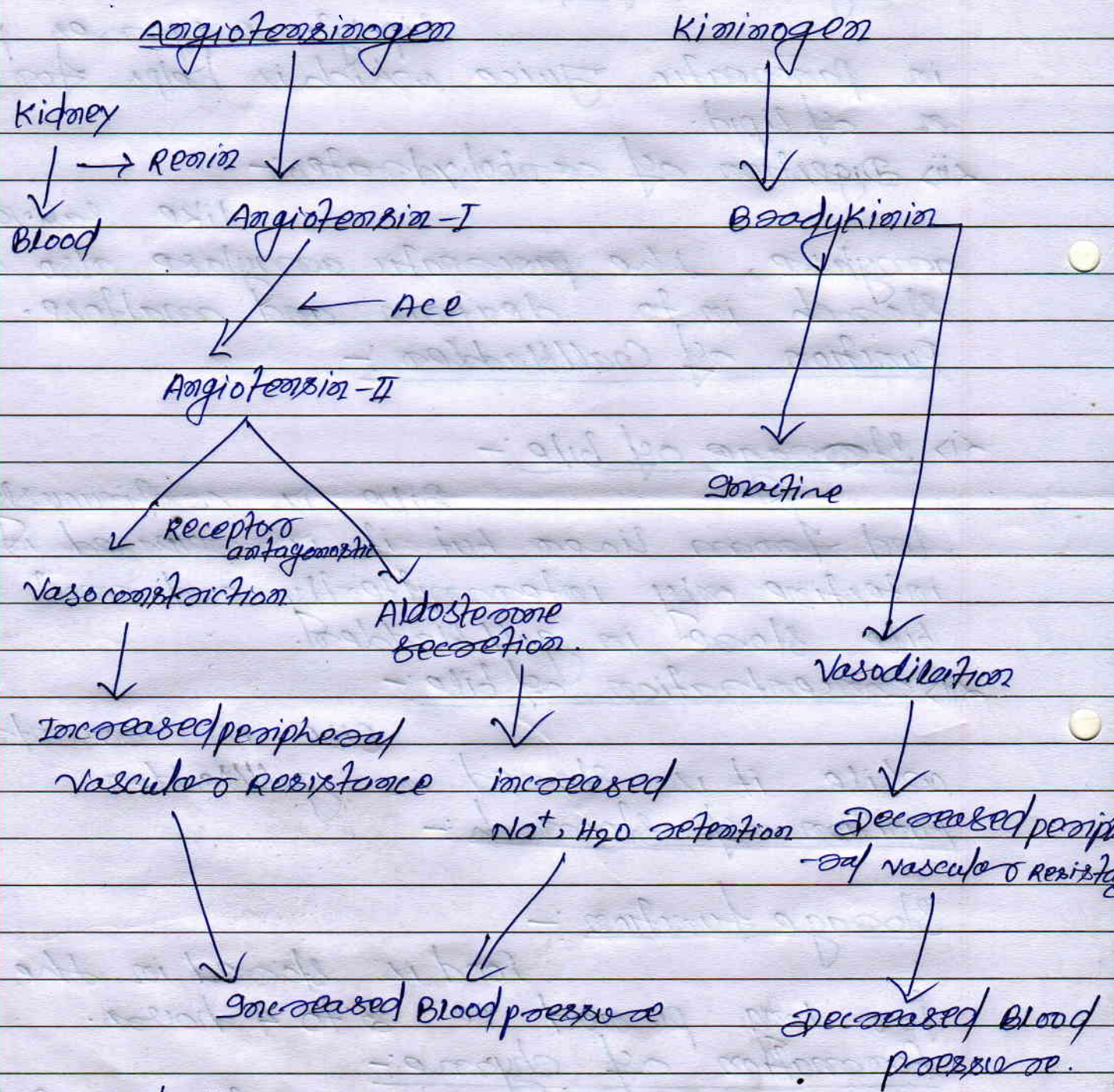
Food is stored in the stomach for long period i.e. 3 to 4 hours.

Formation of chyme :-

Due to peristaltic movement of stomach mix the bolus with gastric juice.

Q. Ans 1 The role of Renin Angiotensin System:-

Liver $\longrightarrow$ Blood.



Q. Ans 2 (a) Chicken pox:-

- It is a viral disease.
- It is caused by varicella zoster virus.
- It spreads mostly by the droplet.

- ⇒ It mainly affects children under 10 years of age.
- ⇒ The incubation period is 14 to 21 days.

(B) Diphtheria :-

- ⇒ It is an acute infectious disease caused by corynebacterium diphtheriae.
- ⇒ This bacteria damage the heart muscles and nervous system.
- ⇒ Incubation period of this disease is 2 to 4 days.

(C) Dengue :-

- ⇒ Dengue fever is a painful fever with symptoms, which usually begin four to six days.
- ⇒ Sudden, high fever.
- ⇒ Severe headaches.
- ⇒ Pain behind the eyes.
- ⇒ Skin rash, which appears two to five days.

3. Anaphylactic shock is a life-threatening medical condition and is a medical emergency.

- ⇒ The main symptom of shock is low blood pressure.
- ⇒ Other symptoms include rapid, shallow breathing, cold, clammy skin, weak pulse.
- ⇒ Treatment for shock depends on the cause.
- ⇒ Text will determine the cause and severity.