

Vaishali Sharma.

परीक्षार्थी का पूरा नाम

कक्ष निरीक्षक का नाम-

परीक्षार्थी द्वारा सम्पूर्ण चिपकण भर दिए गये हैं।



R

2018-

भाग-2

M.Sc. Internal

चौधरी चरण सिंह विश्वविद्यालय, मेरठ

Ch. Charan Singh University, Meerut

निम्नलिखित विवरण परीक्षार्थी द्वारा स्वयं भरा जाए (To be filled by the Examinee)

परीक्षा का नाम M.Sc. Ist year वर्ष 20 2019 भाग/सेमेस्टर IInd
(Name of Exam) (Year 20.....) (Part / Semester)विषय Zoology - Mammalian Phy. प्रश्न-पत्र/पाठ्यक्रम H-2064
(Subject) (Paper/Course) (Paper Code No.)परीक्षा का दिन Saturday दिनांक 4/5/19
(Day of Examination) (Date)

प्राप्तांक एवं पूर्णांक परीक्षार्थी द्वारा भरे जायें

पूर्णांक
(Max. Marks)

प्रश्नों की क्रम संख्या	a/I	b/II	c/III	d/IV	e/V	f/VI	g/VII	h/VIII	i/IX	j/X	योग
1	/	/	/	/							2
2	42	1	/								42
3	49	1									49
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											

प्राप्तांक

(शब्दों में)	अंकों में
--------------	-----------

जांचकर्ता के हस्ताक्षर एवं तिथि

परीक्षक के हस्ताक्षर एवं तिथि



2018-

भाग-3

चौधरी चरण सिंह विश्वविद्यालय, मेरठ

अधिकारी विरेन्द्र देव पुष्ट भाग देवे

Date Stamp to be affixed here

मार्च 2019

(परीक्षार्थी द्वारा भरा जाए)

परीक्षा का नाम M.Sc. Ist year भाग/सेमेस्टर IInd

विषय Zoology - Mammalian Phy &iology

प्रयोग पत्र 4/5/19

परीक्षार्थी का अनुक्रमांक (Roll Number)

उत्तर-पुस्तिका क्रमांक

KM-I-01-

कालेज कोड

018

●	○	○
●	●	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
H	7	7
T	8	8
J	9	9
K	9	9
L	9	9
P	9	9
S	9	9
T	9	9
U	9	9
V	9	9
W	9	9

(परीक्षार्थी की श्रेणी)

- संस्थागत
व्यावसायिक
दैवक पेपर
अंक सुधार
भूतपूर्व
एकल विषय

नामांकन संख्या (Enrollment Number)

M 15541386

पेपर कोड H 2064

परीक्षार्थी का पूरा नाम

Vaishali Sharma

कक्ष निरीक्षक का नाम

Section 'C'

Q10 Summary of Blood.

→ Introduction

→ Plasma → ~~Water
Protein
Organic Substances
Inorganic Substances
Enzyme
Hormone
Gases.~~

→ Blood cell

①

Erythrocyte (Red blood cell)
(Corpuscles)

- Number
- Shape & Size.
- Physical str.

2

② Leucocyte (White Blood cells)

2 types — ① Granulocyte

→ Acidophil
→ Basophil
→ Neutrophil

② Agranulocyte
→ Lymphocyte
→ Monocyte.

③ Blood Platelets.

⇒ Function of Blood.

3

→ Blood is a fluid matrix in connective tissue. It is colorful in liquid form.

→ Blood formation occurs in Loney Bone Marrow.

→ Blood composition is various types -

Plasma

→ thickening
liquid

→ In plasma present.

Plasmel is colorless substances. if it is substances.
60% of water

Protein

→

- ① Albumin
- ② globulin
- ③ fibrinogen
- ④ Prothrombin

Organic Substances

1) Non nitrogenous like - fats

② Non Protein Substances - Present
in the Plasma.

Inorganic Substances

~~Substances~~

Plasma.

Magnesium,
are present

are present in the
such as Calcium
Sodium, Potassium

in the plasma.

Enzyme

Lipase
Proteins.

6.

Hormones \rightarrow Progesterone

Gases \rightarrow Oxygen present in Deoxygenated Blood.

\rightarrow 14% oxygen present in oxygenated blood.

\rightarrow Carbon dioxide present in plasma of oxygenated & deoxygenated blood.

Blood cell

3 types -

Erythrocytes
Leucocytes
Blood Platelets.

Erythrocytes →

Red Blood Corpuscles; this is also called
called Corpuscles not if cell
Hc there is no nucleus &
mitochondria present.

In Red Blood Cells are enucleate!
corpusles. In this nucleus,
golgi body, mitochondria not present.

Numbers

In Men RBCs
5 to 5.5 per cubic millilitre
Present ✓

→ But in Women 4.5 to
5 per cubic medillion RBCs
Present -

Shape & Size

Erythrocytes
are biconcave disc like in this
flexible Colour.
they are yellow in

→ But in group they looks
Red Cobalt VB/C of present
the Oxygenated pigment
Hemoglobin is found.

Physical Structure

RBCs are disc like flexible, biconcave structure. One Hb group carry 4 oxygen molecules.



Red Blood Cells
Biconcave Corpuscles

Leucocyte →

White cells are very small structures.
this is also called In this
Blood nucleop & cytoplasm

WBC are Mainly 2 types - ¹¹

①

Granulocyte

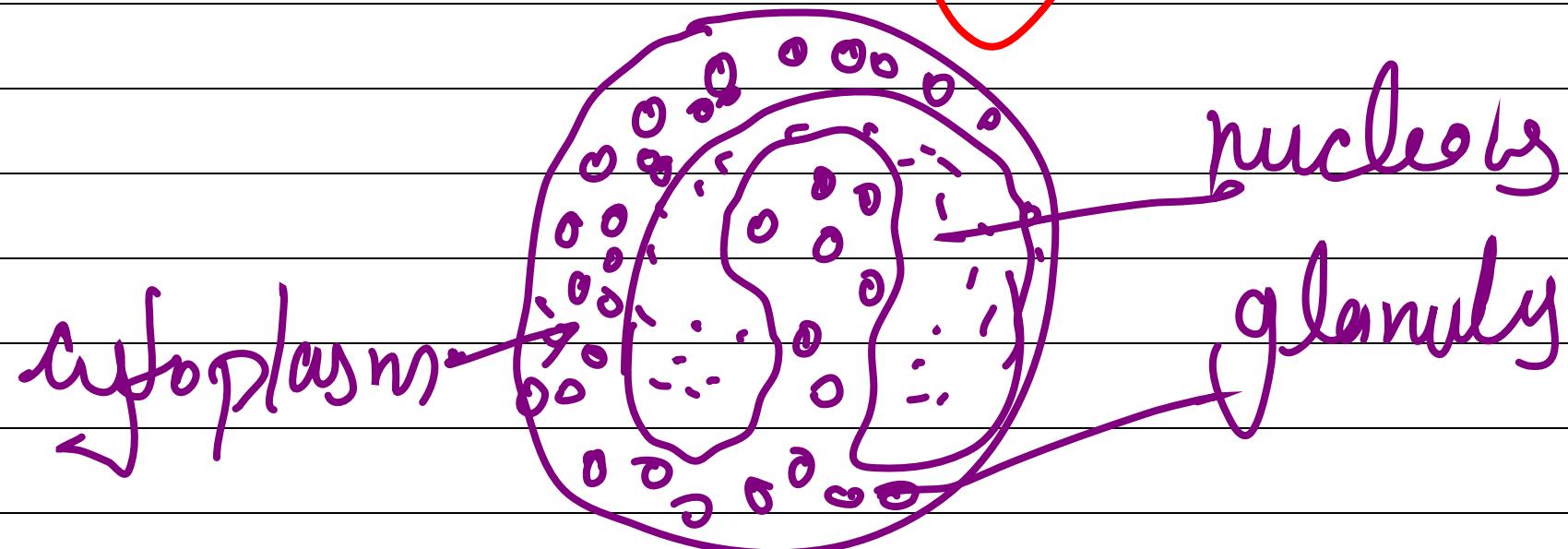
granulocyte
nucleus

In the
granules
present:

- It occurs more in childrens than the adult.
- Granulocytes are divided into 3 categories based on the presence of granules.

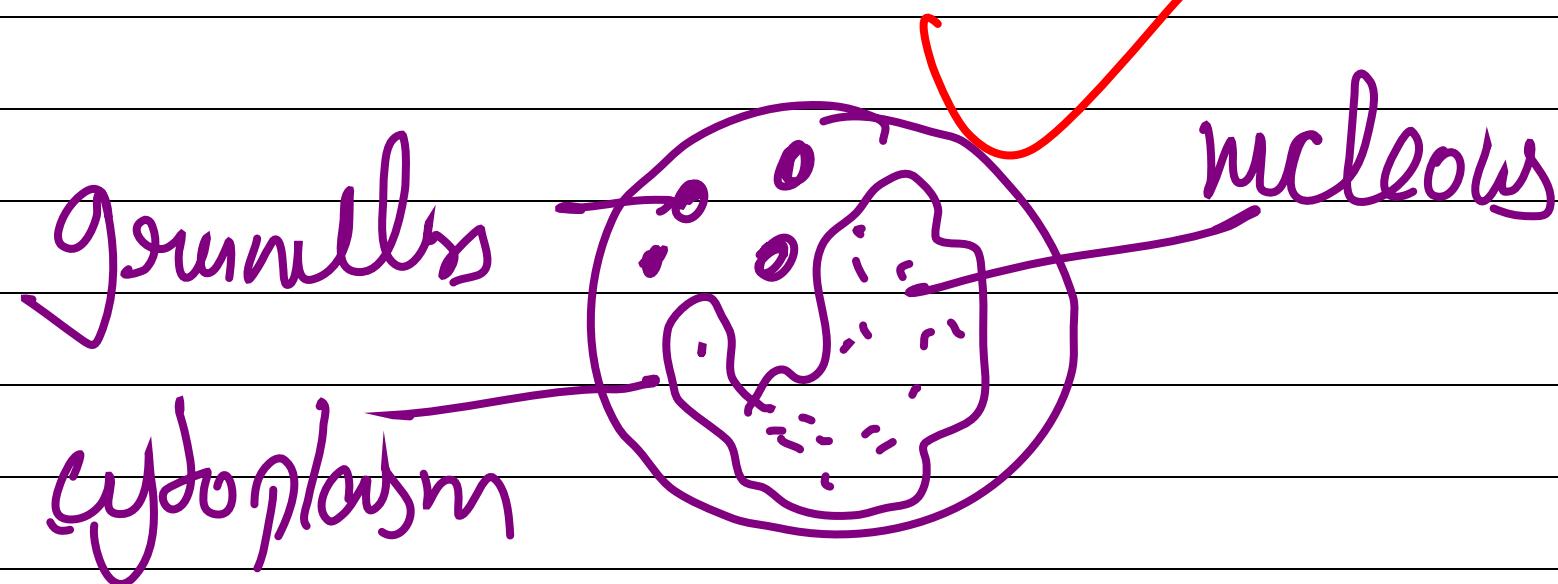
Acidophyl → In nucleus present in this & large granules number.

Acidophyl help to maintain antibody.

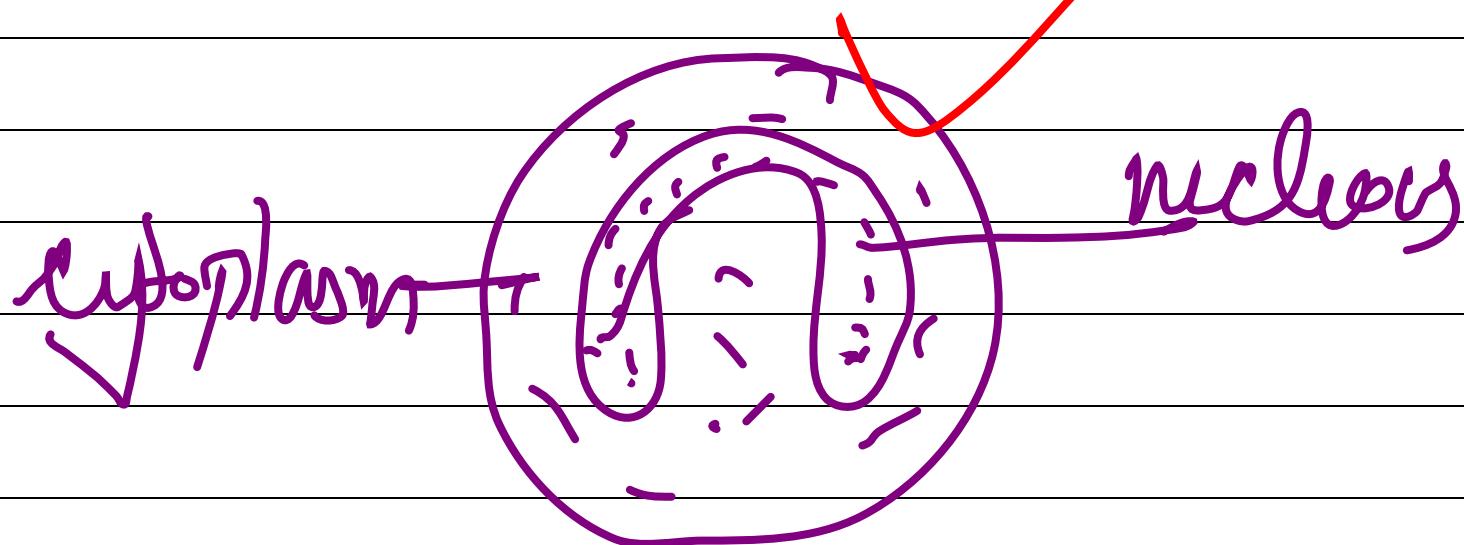


Basophyl

Its nucleus is S - shaped.
Some granules present in the Basophyl.



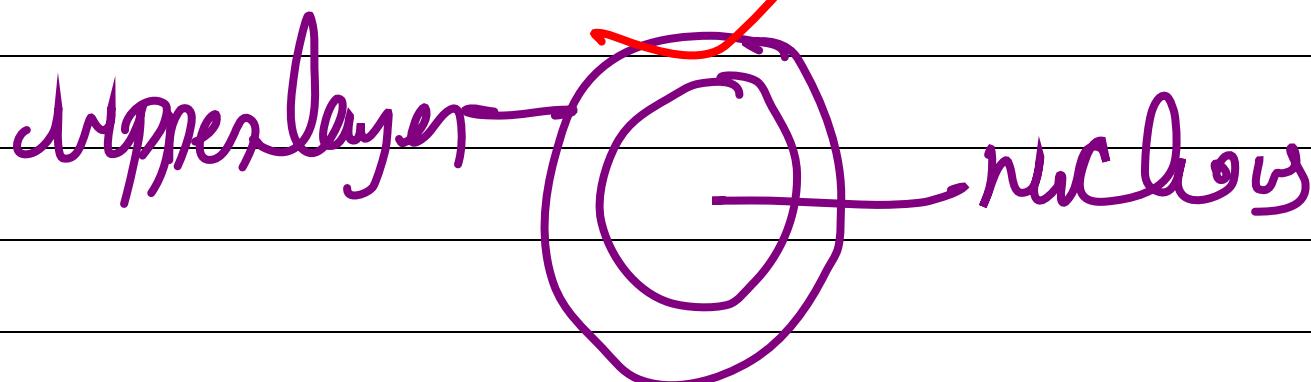
Neutrophyl → In this nucleus granules present. But in Neutrophyl. Not present.



Agranulocyte → can be divided in
2 types.

1) Lymphocytes →

Smaller size
is layers is small.
this are the
and the nucleus
the upper
Lymphocyt.



Monocytes

the size of lymphocyte. If its size is large than nucleus found in the upper thickening layers.

Blood Platelets

formed in blood. They are very small in size. They are red in colour. Its shape is oval.

function of Blood

→ Transport of minerals
Blood takes all minerals from every organs
By the help of Distrib-
the Blood.

→ Disposal of CO_2
the CO_2 by the Blood.
if it enters the body

- Distribution of protein
are carried of all parts
By the plasma
- Removal the excretory substance
- Carry O₂ gas.
- Distribution of other comp.
Substances to many organs.
- Proteins from disease.

Q-11.

Introduction

- Types → 1) Poikilothermes
Ectothermas.

2) Homeothermous

- (i) Ectoderm Homeothermas
- (ii) Endoderm Homeothermas.

3) Homothermous.

Q10 Thermoregulation → if defined by the temperature of own body.

→ Temperature of Body are thermoregulator maintaining.

→ Various animals maintain their body temp.

→ Thermoregulation are occurred by different types -

→ Maintain their Body temperature²¹
according to the environment
& according to the Constant.

→ Some mammals are Constant.
Body temp.

→ Body temp. are Cold Blooded
& Warm Blooded.

Poikilotherms & Ectotherms

Poikilotherms are those animal whose body temp. varies with ambient region.

- Some invertebrates, mammals & Birds are Poikilotherms.
- This are also called warm blooded animals.
- Ectotherms are constant body temperature.

Homeotherms



Homeotherms temp.

are constant.

Its body temp.

can not changes in Environment.

→ Birds & Mammals are the true Homeotherms.

→ Some Deep fishes & Reptiles are the Homeotherms animals.

Homeotherms are divide into two categories.

1) Ectothermal Homeotherms →

Snakes & Lizard are the Ectothermal Homeotherms.

2) Endothermal Homeotherms →

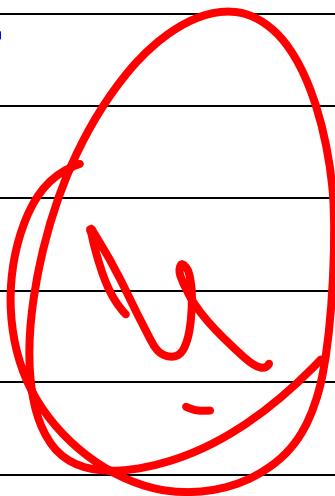
Mammals are the endothermal

Homothermias

the animal ~~is~~ ^{is able to} ~~in~~ ^{all} ~~changing~~ ^{environment} ~~Does~~ ^{not} ~~change.~~ Homothermias are body temp. in condition. ~~in~~ blood

Mainly Homothermas are two types.

→



Section A

①

Pineal gland

it is situated
in the posterior part of the Brain.

→

it secretes Melatonin Hormone
in the nervous system.

→ it is also called sleeping

Hormone

π. it is small in size.

~~b-2~~ Two Protein Hormone are -

AC TH → Adreno - Corticotrophic Hormone.

→ It found in Adrenal gland.

TSH → Thyroid Stimulating Hormone.

→ It controls the Conc. of Iodine Thyroid gland.

~~S-3~~ Menstrual cycle estrous cycle

- ⇒ its cycle found in Mammals
 - ⇒ offspring present in the follows.
 - ⇒ if growth in factors
- } its cycle found in Birds.
- ⇒ offspring present in the Egg.
 - ⇒ if growth in Egg.

Q4. function of Oxytocin

Hormone found in

~~gland~~

Oxytocin
~~Mammary~~

→ It active the mammary gland.

→ Oxytocin Hormone give to the Mammary gland to active the production of milk.

Gall Bladder

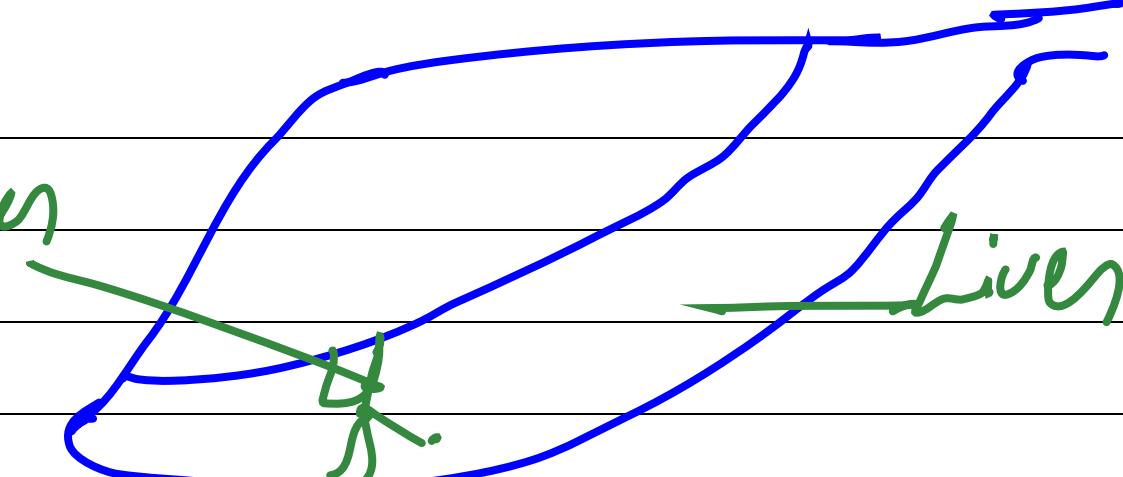
It's part of Liver

Liver is the Main part of the Digestive system.

→ its help in the Digestion.

→ In liver gall bladder is present that secretion & help in Digestion. Removal of waste substance.

→ its size is more above 1.5 kg.



Q. Lives are attached by the
 Eso phagous. When food come
 out by the Digestion
 of Eso phagous. it help
 to break particles.

Section 'B'

Q-7. Digestive System → Digestive
 System of help in
 digestion of food.

33
→ it converts large particles of food into small particles

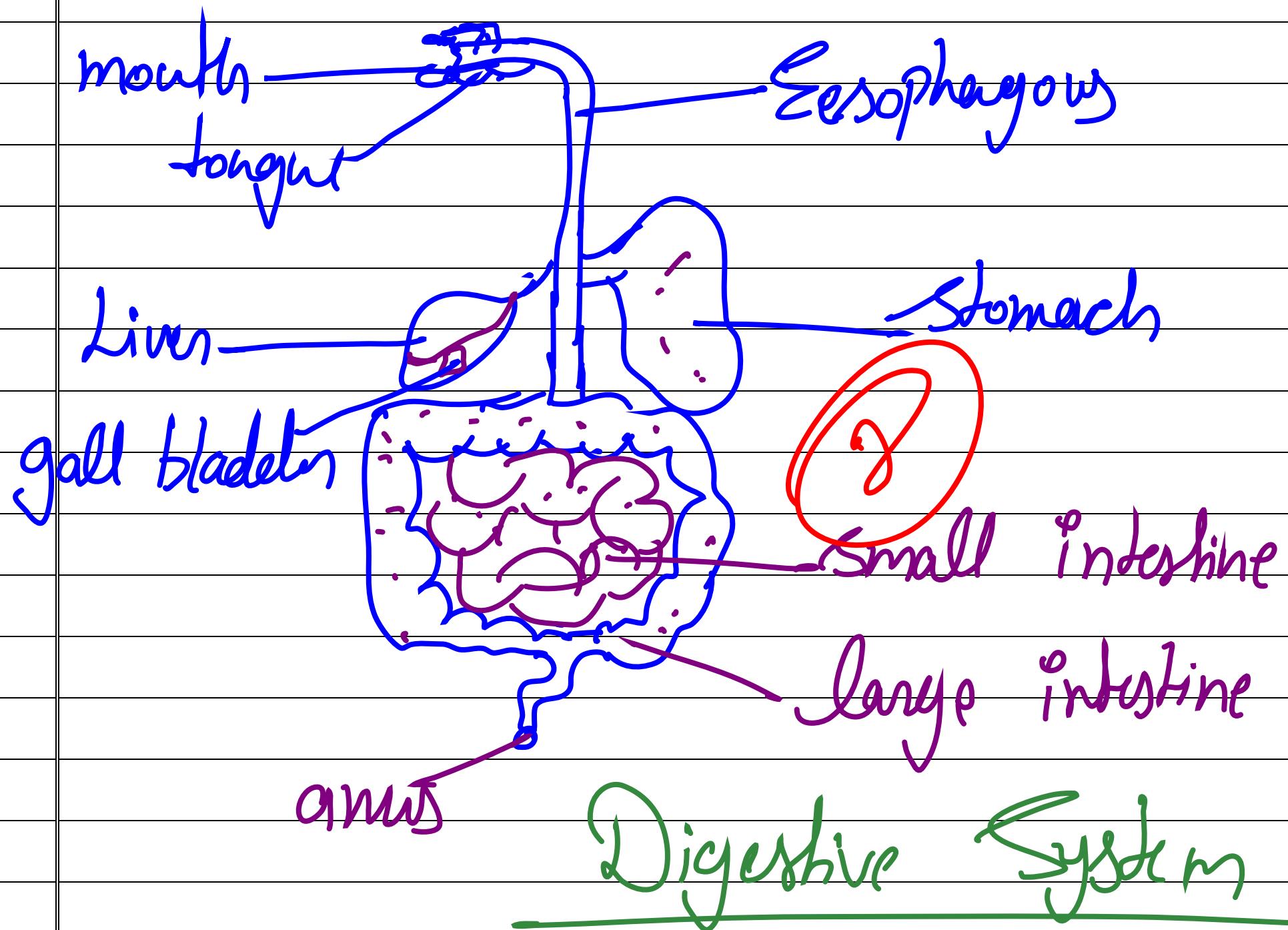
→ Digestive System Contains
Various parts of

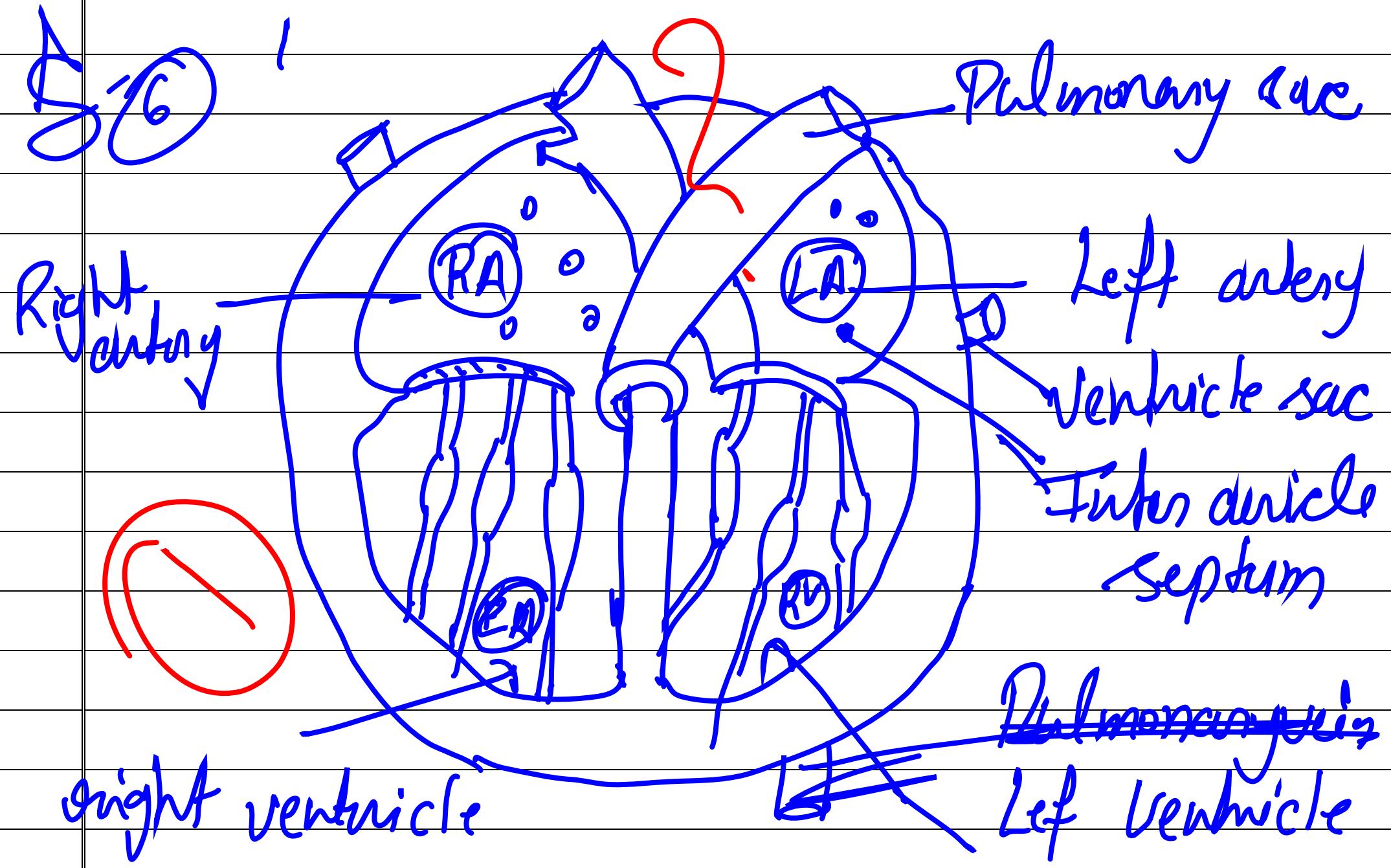
1) Mouth → Teeth.
→ Salivary gland

② Esophagus
③ Stomach.

④ Small intestine.

- 1) Duodenum
2) Jejunum
3) Ileum ✓
4) Large intestine.
5) Gall bladder.
6) Liver
7) Intestine.





⇒ The heart of Bird is the four chambered.

i.e. its struck. Pulmonary & other artery & vein present.

