

"Dissemination of Education for Knowledge, Science and Culture"

-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous

Department of Zoology

Academic Year: 2024-25

Date: 05/08/2024

Notice

All students of B.Sc. II Major are hereby informed that your open book test for paper **Animal Physiology** is scheduled on 13/08/2024. As per the part of continuous evaluation attendance is compulsory to all.



Dr. S. S. Desai
Teacher Incharge



Dr. G. K. Sontakke

HEAD
DEPARTMENT OF ZOOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

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Department of Zoology

Academic Year: 2024 -25

Class-B.Sc.-II Sem-III

Date: 13/08/2024

Name of the Paper: Animal Physiology

Time-11-12 pm

Question Paper

Q1. Long Answer question

- A) Describe in detail the structure of the human kidney with a neat labelled diagram. Add a note on the process of ultrafiltration.-10 Marks



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Department of Zoology

Academic Year: 2024-25

Date: 13/08/2024

B.Sc. II Sem III (Major)

Paper- Animal Physiology

Attendance Open Book Test

Sr. No.	Name of the student	Signature
1.	Avinaben Vinodbhai Bariya	Avinab
2.	Vira Sachin Khot	Vslehot
3.	Sayali Ashok Patil	SPatil
4.	Shireen Sajid momin	Smomin
5.	Sanika Sanjay more	Ssamos
6.	Suhani suraj Patil	Spatil
7.	Shravani Sanjay Todkar	Stodkar
8.	Rutuja Bajareney Shingare	Rutis
9.	Anushka R. Patil	Anusha
10.		
11.		
12.		
13.		
14.		
15.		

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BSC-II Animal Physiology . Aninaben V. Bariya



॥ ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षण प्रसार ॥

- शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Open Book Test.

VIVEKANAND COLLEGE, KOLHAPUR.
(Empowered Autonomous)

SUPPLIMENT

Jr. Supervisor's Sign. :

Students Sign. :

Seat No. :

Seat No. in words :

Suppliment No. :

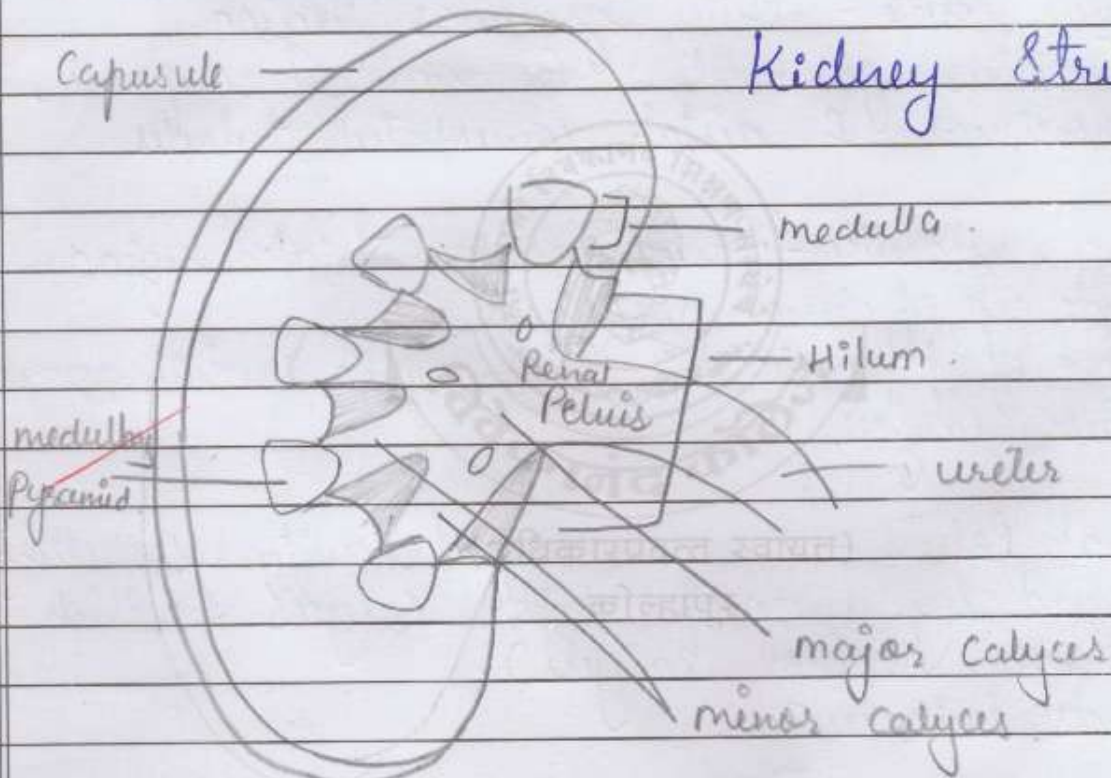
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Centre

प्र. क्र.
Q. No.

Capsule

Kidney Structure



The kidney are paired organs in the lower back that play a crucial role in filtering waste and excess fluids from the blood.

External Structure -

Shape - Bean shaped, reddish brown organs.

Size - About 10-12 cm long, 5-7 cm wide and 2-3 cm thick.

प्र. क्र.
Q. No.

Position - On either side of the vertebral column just below the ribcage.

Hilum - A concave notch.

Internal Structure -

Renal cortex - Outer granular region.

Contains glomeruli, Bowman's capsule, proximal & distal convoluted tubules.

Renal medulla - Inner dark, striated region.

made up of renal pyramids.

Apex of pyramid = renal papilla, which opens in minor calyces.

Renal Pelvis - funnel-shaped cavity collecting urine formed by union of major calyces (which arise from minor calyces).
leads into ureter.

Microscopic structure (Nephron) -

Structural and functional unit of kidney.

प्र. क्र.
Q. No.

Processes of ultrafiltration.

Ultrafiltration is the process by which the kidney filter waste and excess substance from the blood.

1. Glomerular filtration -

1. Glomerular filtration -
Blood flows into the glomerulus, where small molecules are filtered into the Bowman's caps.

2. Filtration Barrier -

The glomerular capillary wall and podocytes act as a selective barrier, allowing small molecules to pass through while retaining large molecules like protein and blood cells.

3. Filter formation - The filter fluid, now called filtrate, enters the renal tubules for further processing.

Functions -

1. Waste removal.
2. Electrolyte regulation
3. fluid balance.

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Department of Zoology

Academic Year: 2024-25

Date: 27/09/2024

**B.Sc. II Sem III (Major)
Paper- Animal Physiology
Attendance**

Sr. No.	Name of the student	Signature
1.	Adagale Paras Charudatta	Adagale
2.	Baraskar Aditi Satish	Ab
3.	Khot Vira Sachin	Vkhot
4.	Mane Pranoti Prakash	Pranoti
5.	Momin Shireen Sajid	Shireen
6.	More Sanika Sanjay	Sanika
7.	Nadaf Muskan Mohammad Rafiq	Ab
8.	Navale Rutuja Pradeep	Rutuja
9.	Patil Anushka Rajgonda	Anushka
10.	Patil Gouri Vijay	Gouri
11.	Patil Madhuri Sanjay	Ab
12.	Patil Sayali Ashok	Sayali
13.	Patil Suhani Suraj	Suhani
14.	Shirgave Rutuja Bajarang	Rutuja
15.	Todkar Shravani Sanjay	Shravani
16.	Bariya Avinaben Vinodbhai	Avinaben
17.	Kamble Ketan Keraba	Ketan
18.	Kamble Ratndip Rajaram	Ratndip
19.	Patil Dhananjay Anandrao	Ab
20.	Powar Yash Mahadev	Ab
21.	Chavan Sakshi Madhav	S. Chavan
22.	Mane Sangramsingh Sandip	Ab
23.	Mahekar Pruthviraj Tatoba	Ab
24.	Kadre Dnyaneshwari Balaso	Ab


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B.Sc. II Sem III (Major)

Paper- Animal Physiology

Surprise Test

Roll No:

Marks: 10

Q. 1. Select the correct alternative

1. Human RBS's are.....

- a. nucleated and biconvex
- b. nucleated and rounded
- c. oval and nucleated
- d. biconcave and non-nucleated

2. Blood is red in color due to

- a. Cytochrome
- b. chlorophyll
- c. hemocynin
- d. haemoglobin

3. Duration of one heart beat in man is

- a. 0.8 sec
- b. 0.6sec
- c. 0.2 sec
- d. 0.5 sec

4. Pacemaker of the heart is known as

- a. S.A node
- b. A.V. node
- c. A.V. septum
- d. Hensen's node

5. Conduction of nerve impulses is faster in.....

- a. Non-mylinated neuron
- b. Mylinated neuron
- c. Glial Cells
- d. Schwann cells

6. The smallest functional unit of kidney is

- a. Nephron
- b. Neuron
- c. Glial cells
- d. Hepatic cell

7. What is the primary function of the large intestine in digestion?

- a. Nutrient absorption
- b. Water absorption and feces formation
- c. Protein digestion
- d. Bile production

8. Ultrafiltration takes place in

- a. Loop of Henle
- b. Malpighian corpuscles
- c. Collecting duct
- d. Minor calyx

9. help to convert pepsinogen into pepsin

- a. HCL
- b. Maltase
- c. Amylase
- d. Sucrase

10. Trachea is supported by shaped cartilage

- a. D
- b. C
- c. V
- d. U

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B.Sc. II Sem III (Major)

Paper- Animal Physiology

Surprise Test

09

Roll No: 7849

Marks: 10

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