

First Professional B.S.M.S Degree Regular/Supplementary Examinations
March 2025
Udal Thathuvam (Physiology) Paper II

(2021 Scheme)

Time: 3 hrs

Max. Marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

1. Multiple Choice Questions

(20x1=20)

The Answers to MCQ questions (Q.No.i to Q.No.xx) shall be written continuously on the first two writing sheets (ie Page No. 3 & 4) only

- i. Cell membrane is also known as

a) Plasma membrane	b) Plasmalemma
c) a Only	d) a and b
- ii. Myosins are classified into types

a) 15	b) 10	c) 18	d) 20
-------	-------	-------	-------
- iii. The molecular weight of fibrinogen is

a) 4,00,000	b) 4,05,000	c) 4,50,000	d) 4,10,000
-------------	-------------	-------------	-------------
- iv. What Vitamin is called Antipernicious factor

a) Vitamin B ₆	b) Vitamin B ₁₂	c) Vitamin B ₅	d) Vitamin B ₂
---------------------------	----------------------------	---------------------------	---------------------------
- v. Each muscle fiber is covered by a connective tissue layer called

a) Perimysium	b) Epimysium	c) Fasciculi	d) Endomysium
---------------	--------------	--------------	---------------
- vi. The Principal mineral in the muscle is

a) Potassium	b) Sodium	c) Calcium	d) Chloride
--------------	-----------	------------	-------------
- vii. Bicarbonate content is very high in

a) Salivary Juice	b) Gastric juice	c) Pancreatic juice	d) Hepatic Juice
-------------------	------------------	---------------------	------------------
- viii. Intrinsic factor of Castle is secreted by

a) Argentaffin cells	b) Goblet cells	c) Parietal cells	d) D cells
----------------------	-----------------	-------------------	------------
- ix. Half- life of Antidiuretic Hormone (ADH) is.....

a) 16 to 20 minutes	b) 18 to 20 minutes
c) 15 to 18 minutes	d) 18 to 21 minutes
- x. Bulldog scalp is Signs and symptoms the disease

a) Gigantism	b) Dwarfism	c) Cushing Disease	d) Acromegaly
--------------	-------------	--------------------	---------------
- xi. Womb is otherwise known as

a) Vagina	b) Fallopian tubes	c) Uterus	d) Isthmus.
-----------	--------------------	-----------	-------------
- xii. Proliferative phase extends usually fromday of menstruation

a) 5 th to 14 th day	b) 15 th to 28 th day	c) 5 th to 28 th day	d) 7 th to 14 th day
--------------------------------------------	---------------------------------------------	--------------------------------------------	--------------------------------------------
- xiii. Normal Glomerular Capillary pressure is mm Hg

a) 50 mm Hg	b) 60 mm Hg	c) 70 mm Hg	d) 80 mm Hg
-------------	-------------	-------------	-------------
- xiv. The structural and functional unit of kidney is.....

a) Sarcomere	b) Ureter	c) Neuron	d) Nephron
--------------	-----------	-----------	------------
- xv. The diameter of Alveolus about mm

a) 0.2 to 0.6 mm	b) 0.2 to 0.5 mm	c) 0.1 to 0.5 mm	d) 0.2 to 0.7 mm
------------------	------------------	------------------	------------------

(PTO)

xvi. Abnormal respiratory Rhythm

a) Apnea b) Dyspnea c) Periodic breathing d) Eupnea

xvii. Narrowing of lumen of arterial vessel due to deposition of cholesterol is.....

a) Thrombosis b) Atherosclerosis c) Aneurysm d) Arterial Stenosis

xviii. Delay of pulse at Common carotid artery is.....

a) 0.01 to 0.02 second b) 0.01 to 0.03 second

c) 0.1 to 0.002 second d) 0.02 to 0.03 second

xix. Length of longest axon is about

a) 1.5 meter b) 0.5 meter c) 2 meter d) 1 meter

xx. Loss of taste sensation is called.....

a) Hypoguesia b) Ageusia c) Taste blindness d) Dysgeusia

Short Answer Questions

(8x5=40)

2. Gap Junction
3. Action Potential
4. Structure of Sperm
5. Micturition Reflex
6. Hypoxia
7. Myelin Sheath
8. Reflex Arc
9. Blind Spot

Long Answer Questions

(4x10=40)

10. Write the types of Salivary glands and Composition, function of Saliva and Applied Physiology.
11. Explain about Iron Metabolism and Applied Physiology.
12. Explain the synthesis, metabolism and action of Catecholamine.
13. Write the different types of Heart Sounds.
