

Q.P. Code:136005

Reg. No.....

**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

- Cell membrane is also known as
  - Plasma membrane
  - Plasmalemma
  - a Only
  - a and b
- Myosins are classified into ..... types
  - 15
  - 10
  - 18
  - 20
- The molecular weight of fibrinogen is
  - 4,00,000
  - 4,05,000
  - 4,50,000
  - 4,10,000
- What Vitamin is called Antipernicious factor
  - Vitamin B<sub>6</sub>
  - Vitamin B<sub>12</sub>
  - Vitamin B<sub>5</sub>
  - Vitamin B<sub>2</sub>
- Each muscle fiber is covered by a connective tissue layer called
  - Perimysium
  - Epimysium
  - Fasciculi
  - Endomysium
- The Principal mineral in the muscle is
  - Potassium
  - Sodium
  - Calcium
  - Chloride
- Bicarbonate content is very high in
  - Salivary Juice
  - Gastric juice
  - Pancreatic juice
  - Hepatic Juice
- Intrinsic factor of Castle is secreted by
  - Argentaffin cells
  - Goblet cells
  - Parietal cells
  - D cells
- Half- life of Antidiuretic Hormone (ADH) is.....
  - 16 to 20 minutes
  - 18 to 20 minutes
  - 15 to 18 minutes
  - 18 to 21 minutes
- Bulldog scalp is Signs and symptoms the disease
  - Gigantism
  - Dwarfism
  - Cushing Disease
  - Acromegaly
- Womb is otherwise known as .....
  - Vagina
  - Fallopian tubes
  - Uterus
  - Isthmus.
- Proliferative phase extends usually from .....day of menstruation
  - 5<sup>th</sup> to 14<sup>th</sup> day
  - 15<sup>th</sup> to 28<sup>th</sup> day
  - 5<sup>th</sup> to 28<sup>th</sup> day
  - 7<sup>th</sup> to 14<sup>th</sup> day
- Normal Glomerular Capillary pressure is ..... mm Hg
  - 50 mm Hg
  - 60 mm Hg
  - 70 mm Hg
  - 80 mm Hg
- The structural and functional unit of kidney is.....
  - Sarcomere
  - Ureter
  - Neuron
  - Nephron
- The diameter of Alveolus about ..... mm
  - 0.2 to 0.6 mm
  - 0.2 to 0.5 mm
  - 0.1 to 0.5 mm
  - 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.

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