| Q.P. Code:136005 | Reg. No |
|------------------|---------|
|                  |         |

## First Professional B.S.M.S Degree Supplementary Examinations December 2024

## Udal Thathuvam (Physiology) Paper II

| (2021 Scheme)   |   |                         |                                    |                                       |  |  |  |
|---|---|-------------------------|------------------------------------|---------------------------------------|--|--|--|
| Γin   | ne: 3 hrs   | •                       | •                                  | Max. Marks: 100                       |  |  |  |
|   | Answer all questions  | to the point neatly and | l legibly • Do not leave any bla   | nk pages between                      |  |  |  |
|   |   |                         | correctly for the answer in the l  |                                       |  |  |  |
|   | •   | • .                     | er • Leave sufficient space bet    | ween answers                          |  |  |  |
|   | Draw table/diagrams/i   | flow charts wherever n  | ecessary                           |                                       |  |  |  |
|   | Multiple Choice Ques  |                         |                                    | (20x1=20)                             |  |  |  |
|   |   |                         | Q.No.xx) shall be written con      | itinuously on the first               |  |  |  |
|   | two writing sheets (ie F  |                         | sformation of it from one ge       | eneration to other is                 |  |  |  |
| ١.  | the function of   |                         | sionnation of it from one ge       |                                       |  |  |  |
|   | a) Cytoplasm  | b) Nucleus              | c) Mitochondria                    | d) Golgi apparatus                    |  |  |  |
| ii  | Cell drinking otherwise   | ,                       | o) wittoorioriana                  | a) Coigi apparatao                    |  |  |  |
|   | a) Exocytosis   |                         | c) Transcytosis                    | d) Phagocytosis                       |  |  |  |
| iii   | Stimulating factors of  | ,                       | o) Transcytosis                    | a) i nagooytoolo                      |  |  |  |
| ••••  | a) Vitamin B <sub>12</sub>  | b) Intrinsic factor     | c) Folic acid                      | d) Thyroxine                          |  |  |  |
| iv.   | Normal value of serur   | ,                       | 3) 1 33 43.4                       | a) myrexine                           |  |  |  |
|   | a) 2.3g/dl  | b) 4.7g/dl              | c) 0.3g/dl                         | d) 7.3g/dl                            |  |  |  |
| ٧.  | Tough cord of connec  | , •                     | , •                                | , · · · · · · · · · · · · · · · · · · |  |  |  |
|   | a) Tendon   | b) Aponeurosis          |                                    | d) Sarcoplasm                         |  |  |  |
| vi. Which type of Auto Antibodies cause Myasthenia Gravis |   |                         |                                    |                                       |  |  |  |
|   | a) IgD  | b) IgA                  | c) lgG                             | d) IgE                                |  |  |  |
| vii.  | , -   |                         |                                    |                                       |  |  |  |
|   | a) Gastritis  |                         | b) Gastric atrophy                 |                                       |  |  |  |
|   | c) Peptic ulcer   |                         | d) Zolliger Ellison syndron        | ne                                    |  |  |  |
| √iii.   | Which condition is cal  | led as Cotton Mouth     | l                                  |                                       |  |  |  |
|   | a) Xerostomia   |                         | b) Sjogren syndrome                |                                       |  |  |  |
|   | c) Mumps  |                         | d) Paralytic secretion of sa       | aliva                                 |  |  |  |
| ix.   | Which hormone is responsible for ovulation                            |                         |                                    |                                       |  |  |  |
|   | a) TSH  | b) FSH                  | c) LH                              | d) Prolactin                          |  |  |  |
| Χ.  | Graves diseases is  |                         |                                    | =                                     |  |  |  |
|   | a) Hyperthyroidism  | b) Myxedema             | c) Cretinism                       | d) Dwarfism                           |  |  |  |
| XI.   | Relaxin secreted from   |                         | \                                  | 15.57                                 |  |  |  |
|   | a) Cervix   | b) Uterus               | c) Maternal Ovary                  | d) Vagina                             |  |  |  |
| xii. Yellow body is otherwise called                      |   |                         |                                    |                                       |  |  |  |
| .:::  | a) Corpus luteum  | b) Primary follicle     | c) Primordial follicle             | d) Graffian follicle                  |  |  |  |
| XIII.   | Osmolarity of urine de  | ecreased in             | h) Diabataa insinidus              |                                       |  |  |  |
|   | <ul><li>a) Diabetes mellitus</li><li>c) Acute renal failure</li></ul> |                         | b) Diabetes insipidus d) Hematuria |                                       |  |  |  |
|   | COACHE ICHALIANUE   |                         | ULLICHANNA                         |                                       |  |  |  |

| xiv.   | Which of the following a) Glomerular filtration c) Secretion | •                | urine formation<br>b) Reabsorption<br>d) Excretion |                  |  |  |
|--------|--|------------------|--|------------------|--|--|
| XV.    | Tidal volume is  |                  |  |                  |  |  |
|        | a) 1000 ml   | b) 3300 ml       | c) 500 ml  | d)1200 ml        |  |  |
| xvi.   | Inspiratory neurons ar                                       | e located in     |  |                  |  |  |
|        | a) Nucleus ambiguous   |                  | b) Nucleus tractus solitaries                      |                  |  |  |
|        | c) Nucleus retroambiguous                                    |                  | d) Nuclei of reticular formation of lower pons     |                  |  |  |
| xvii.  | First heart sound duration                                   |                  |  |                  |  |  |
|        | a) 0.02-0.04 sec   | b) 0.10-0.14 sec | c) 0.07 - 0.10 sec                                 | d) 0.10-0.17 sec |  |  |
| xviii. | i. Isometric relaxation period                               |                  |  |                  |  |  |
|        | a) 0.08 sec  | b) 0.05 sec      | c) 0.22 sec  | d) 0.04 sec      |  |  |
| xix.   | . Inhibitory Neurotransmitter                                |                  |  |                  |  |  |
|        | a) Glutamate   | b) Acetylcholine | c) GABA  | d) Histamine     |  |  |
| XX.    | Unequal refractive power of two eyes                         |                  |  |                  |  |  |
|        | a) Anisometropia   | b) Presbyopia    | c) Hypermetropia                                   | d) Astigmatism   |  |  |
| Sho    | ort Answer Questions   | <b>;</b>         |  | (8x5=40)         |  |  |

- 2. Write a short note on negative feedback mechanism of cell
- 3. Describe myasthenia gravis
- 4. Functions of oestrogen
- 5. Describe Renin angiotensin mechanism
- 6. Explain lung volume
- 7. Functions of Basal Ganglia
- 8. Physiology of sleep
- 9. Describe presbyopia

## **Long Answer Questions**

(4x10=40)

- 10. Define Erythropoiesis and explain the stimulation and maturation factors necessary for erythropoiesis
- 11. Digestion, absorption and metabolism of carbohydrate
- 12. Regulation and functions of Growth Hormone
- 13. Describe cardiac output with factors influencing the cardiac output

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