

**First Professional BUMS Degree Supplementary Examinations  
January 2024  
Munafeul Aza – Paper II  
(2022 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. In the human kidney the percentage of cortical nephrons is  
a) 85%                      b)90%                      c)95%                      d)100%
- ii. The macula densa cells secrete  
a) Angiotensin I                      b) Angiotensin II  
c) Thromboxane A2                      d) Rennin
- iii. Urinary output in a normal person is  
a) 1 to 2 liters                      b) 1 to 1.5 liters  
c) 1.5 to 3 liters                      d) 1.5 liters to 4 liters
- iv. These substances do not appear in urine under normal conditions  
a) Low threshold substance                      b) Non-threshold substance  
c) High threshold substance                      d) All of the above
- v. This nerve is called the Nerve of Emptying the urinary bladder  
a) Sympathetic nerve  
b) Pudendal nerve  
c) Preganglionic fibers of sympathetic nerve  
d) Parasympathetic (pelvic) nerve
- vi. This layer of the epidermis is also called as Horny layer  
a) Stratum corneum                      b) Stratum lucidum  
c)Stratum granulosum                      d) Stratum spinosum
- vii. Stratum germinativum gives rise to new cells, known as  
a) Melanocyte                      b) prickle cells  
c) Keratinocyte                      d) Histiocytes
- viii. Keratohyalin is the precursor of  
a) Melanin                      b) Keratin  
c) Chromatophores                      d) None of the above
- ix. This pigment is responsible for the color of the skin  
a) Melanin                      b) Keratin  
c) Chromatophores                      d) None of the above
- x. These glands are situated only in certain areas of the body like axilla, pubis, areola, and umbilicus.  
a) Eccrine gland                      b) Apocrine glands  
c) Melanocytes                      d) Keratinocyte

**(PTO)**

- xi. Neuron does not have
  - a) Mitochondria
  - b) Golgi apparatus
  - c) Centrosomes
  - d) Kinetochore
- xii. This covering covers the whole nerve
  - a) Epineurium
  - b) Endoneurium
  - c) Perineurium
  - d) myelin sheath
- xiii. Adrenergic nerve fibers secrete
  - a) Acetylcholine
  - b) Noradrenaline
  - c) Adrenaline
  - d) None of the above
- xiv. Receptors that give a response to chemical stimuli are called the
  - a) Thermoreceptors
  - b) Baroreceptors
  - c) Chemoreceptors
  - d) Telereceptors
- xv. It is synthesized in the cholinergic nerve endings.
  - a) Noradrenaline
  - b) Adrenaline
  - c) Dopamine
  - d) Acetylcholine
- xvi. These cells secrete growth hormones
  - a) Somatotrophs
  - b) Corticotrophs
  - c) Thiotrophs
  - d) Gonadotrophs
- xvii. This hormone causes the development of Graafian follicle
  - a) LH
  - b) TSH
  - c) GH
  - d) FSH
- xviii. These are the hormones of thyroid gland
  - a) Thyroxine
  - b) Triiodothyronine
  - c) Calcitonin
  - d) All of the above
- xix. It is the only antidiabetic hormone in the body.
  - a) Insulin
  - b) Glucagon
  - c) Growth Hormone
  - d) Thyroid hormone
- xx. These hormones mainly act on glucose metabolism
  - a) Aldosterone
  - b) Mineralocorticoids
  - c) Glucocorticoids
  - d) ACTH

**Short Answer Questions**

**(8x5=40)**

- 2. Classification of salivary glands
- 3. Structure of respiratory unit
- 4. Functional histology of Bowman's capsule
- 5. Glomerular filtration
- 6. Apocrine sweat gland
- 7. Graafian follicle
- 8. Excitatory synapses
- 9. Exteroceptors

**Long Answer Questions**

**(4x10=40)**

- 10. Functions of bile
- 11. Indications of artificial respiration and any two methods of artificial respiration
- 12. Functions of insulin
- 13. Functional histology of testis and its functions

\*\*\*\*\*