


Roll No.....

SCHOOL OF UNANI MEDICAL EDUCATION & RESEARCH
Annual Examination of BUMS First Prof. 2024 (Batch: 2022-2023)(Senior Batch)
Paper Code: UNIUG-MZ-Paper II: MANAFEUL AZA (HUMAN PHYSIOLOGY)

Note: Attempt all the questions in continuation.

Max. Marks: 100

Time: 3 Hour

Section A (Multiple Choice Questions)

This part contains **twenty** questions. Each question carries **one** mark. **[20x1=20]**

1. Which of the following is responsible for the formation of the Columns of Bertini?
a) Medulla b) Renal Pelvis c) Calyces d) Cortex
2. Which cells of the epidermis produce fibrous protein keratin?
a) Melanocytes b) Langerhans' cells c) Merkel cells d) None of the above
3. Which one of the following routes is responsible for the maximum amount of heat loss in humans at an ambient temperature of 21° C?
a) Radiation and conduction b) Respiration
c) Urination and defecation d) Vaporization of sweat
4. Principle site for Sodium absorption is:
a) Distal Convoluted Tubule b) Collecting duct
c) Proximal convoluted Tubule d) Loop of Henle
5. What is one of the functions of Acetylcholine?
a) Memory b) Major inhibitory neurotransmitter
c) Mood d) A chemical that acts within pathways and emotion centers of the brain
6. Which of the following is the main principle of Dialysis?
a) Capillary action b) Reverse- Osmosis
c) Adhesion d) None of the above
7. The presence of ketone bodies is an indication of which of the following diseases.
a) Diabetes mellitus b) Diabetes insipidus
c) High blood pressure d) Liver cirrhosis
8. _____ controls involuntary activities like coughing and sneezing.
a) Medulla b) Cerebrum c) Pons d) Cerebellum
9. Glucagon regulates blood glucose by following, EXCEPT:
a) Increasing liver glycogenesis b) Increasing liver gluconeogenesis
c) Increasing liver glycolysis d) All of the above
10. Centre for heat, touch, cold, and pressure are in
a) Frontal lobe b) Occipital lobe
c) Parietal lobe d) Frontal as well as Occipital lobe
11. Glucose absorption take place in:
a) Stomach b) Duodenum c) Small intestine d) Large intestine
12. GFR in a healthy adult per day is about:
a) 120 Lit b) 180 Lit c) 100 Lit d) 130 Lit
13. Hypothalamic hormones are _____
a) Peptides b) Steroids c) Iodothyronines d) Amino acid derivatives

14. The contribution of submaxillary gland in secretion of saliva is about:
 a) 70% b) 50% c) 25% d) 10%
15. Menstrual Bleeding is due to:
 a) LH surge b) Lack of estrogen & Progesterone
 c) High level of gonadotropins d) Lack of gonadotropin
16. In the synapse, _____ contains receptor sites for neurotransmitters.
 a) Presynaptic ending b) Postsynaptic ending
 c) Synaptic cleft d) None of these
17. A fall in the GFR activates which of the following cells?
 a) PCT cells b) Podocytes
 c) DCT epithelium d) JG cells
18. Which of the following substances are not reabsorbed actively by the nephron?
 a) Glucose b) Amino acids
 c) Sodium ions d) Nitrogenous wastes
19. Which of the following are not the thyroid hormone-binding proteins in the plasma?
 a) Albumin b) Thyroglobulin
 c) Thyroid binding globulin d) None of the above
20. Graves' disease is characterized by the following EXCEPT?
 a) Excess release of TSH from the anterior pituitary
 b) Hyperactivation of TSH receptor pituitary
 c) Presence of TSH receptor antibodies causing receptor activation
 d) Decreased TSH levels

Section-B: Short Answer Questions (SAQ)

This part contains Eight questions. Each question carries **five** marks. [8x5=40]

1. Write down about the spermatogenesis.
2. Explain the regulation of body temperature.
3. What are the physiological effects of high altitude on the body?
4. Write a note on the digestion of carbohydrates.
5. Explain the Renin Angiotensin Aldosterone System (RAAS).
6. Write down about the respiratory centers.
7. Write down the functions of Skin.
8. Write down about the pulmonary capacities.

Section -C: Long Answer Questions (LAQ)

This part contains Four questions. Each question carries **Ten** marks. [4x10=40]

1. Explain the mechanism of micturition.
2. Describe the physical & hormonal changes during pregnancy.
3. Define artificial respiration and describe its methods.
4. Describe the movements of the alimentary canal and its functions.
