

BRAINWARE UNIVERSITY

Term End Examination 2018 - 19

Programme- Bachelor of Pharmacy

Course Name - Human Anatomy and Physiology II

Course Code -BP201T

(Semester - 2)

Time allotted: 3 Hours Full Marks: 75

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group -A

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|-------|---|---------------------------------------|-------|--|--------------------|--|
| | | (Multiple Choice Ty | ype (| Question) | $20 \times 1 = 20$ | |
| 1. | Choose the correct alternative from the following | | | | | |
| (i) | i) Which of the following is the Glomerular Filtration Rate of a nephron? | | | | | |
| | a. | 125ml/day | b. | 180ml/day | | |
| | c. | 125L/day | d. | 125ml/min | | |
| (ii) | Axopla | asm is the | | | | |
| | a. | blood plasma that nourishes a nerve | b. | fluid external to the axon myelin sheath | n but inside the | |
| | c. | cytoplasm of the dendrite | d. | cytoplasm of the axon | | |
| (iii) | The "sodium-potassium pump" pumps | | | | | |
| | a. | sodium ions out and potassium ions in | b. | sodium ions in and potas | ssium ions out | |
| | c. | sodium and potassium ions in | d. | sodium and potassium io | ons out | |
| (iv) | Addiso | on's disease is related to: | | | | |
| | a. | Thyroid gland | b. | Parathyroid gland | | |
| | c. | Adrenal gland | d. | Thymus gland | | |
| (v) | Which of the following carries both the sensory and motor information? | | | | | |
| | a. | Motor nerves | b. | Sensory nerves | | |
| | c. | Mixed nerve | d. | Heart | | |

| (vi) | An action potential: | | | | | |
|--------|---|----|---|--|--|--|
| | a. involves the efflux of negative ions to depolarize the membrane. | b. | involves the influx of negative ions to depolarize the membrane . | | | |
| | c. is initiated by potassium ion movements. | d. | is essential for nerve impulse propagation. | | | |
| (vii) | The renal pyramids are separated from each other by extensions of the renal cortex which are called | | | | | |
| | a. Renal medulla | b. | Medullary cortices | | | |
| | c. minor calyces | d. | Renal columns | | | |
| (viii) | Which endocrine gland is present in front of larynx? | | | | | |
| | a. Parathyroid gland | b. | Thyroid | | | |
| | c. Thymus | d. | None of the above | | | |
| (ix) | The number of nephron in each kidney is about: | | | | | |
| | a. 100 | b. | 1000 | | | |
| | c. 1 million | d. | 10000 | | | |
| (x) | Tonsils are present in: | | | | | |
| | a. Pharynx | b. | Larynx | | | |
| | c. Pancreas | d. | Liver | | | |
| (xi) | The right and left lungs are divided into: | | | | | |
| | a. 3 lobes and 2 lobes respectively | b. | 2 lobes and 3 lobes respectively | | | |
| | c. 3 lobes each | d. | None of the above | | | |
| (xii) | The intestinal juice contains enzyme: | | | | | |
| | a. Trypsin | b. | Chymotrypsin | | | |
| | c. Enterokinase | d. | None of the above | | | |
| (xiii) | Myxodema is due to deficiency of: | | | | | |
| | a. Thyroxine | b. | Glucagon | | | |
| | c. Insulin | d. | Parathormore | | | |
| (xiv) | The peripheral nervous system includes mixed nerves that | | | | | |
| | a. serve the muscular and skeletal system | b. | serve the parasympathetic system | | | |
| | c. contain both sensory and motor fibers | d. | do not always know how to respond | | | |
| (xv) | The output of water in the urine is mainly controlled by | | | | | |
| | a. Insulin | b. | Glucagon | | | |
| | c. Adrenalin | d. | ADH | | | |

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|---|--|---|-------|---------------------------------------|-------|---|
| (xvi) | The hormone secreted by the pineal gland is | | | <u></u> | | |
| | a. | Trypsin | b. | Chymotrypsin | | |
| | c. | Melatonin | d. | None of the above | | |
| (xvii) | Which | ich of the following is the master gland of the endocrine system? | | | | |
| | a. | Adrenal | b. | Pancreas | | |
| | c. | Pituitary | d. | Thyroid | | |
| (xviii) | | ing the large food particles into smal | ler o | nes with much larger total surface ar | ea is | |
| | a. | Absorption | b. | Elimination | | |
| | c. | Mastication | d. | Digestion | | |
| (xix) Fertilization of an ovum by a spermatozoon occurs in which of the following structures? | | | | ıres? | | |
| | a. | Fallopian tube | b. | Fallopian tube | | |
| | c. | Vagina | d. | Vagina | | |
| (xx) A refers to the pathway followed by nerve impulses producing a reflex. | | | | | | |
| | a. | Fallopian tube | b. | Choroid plexus | | |
| | c. | Reflex arc | d. | BBB | | |
| | | Group – | В | | | |
| | | (Short Answer Type | Que | estions) $7 \times 5 = 3$ | 5 | |
| Ansv | ver any <i>s</i> | even from the following | | | | |
| 2. | Write a short note on medulla oblongata. | | | | 5 | |
| 3. | Write short notes on composition and function of saliva. | | | saliva. | 5 | |
| 4. | Give the | composition of urine. | | | 5 | |
| 5. | How re | espiration is regulated? | | | 5 | 5 |
| 6. | Discuss the role of kidney in maintenance of blood pressure. | | | d pressure. | 5 | |
| 7. | Write a note on hormone released from pineal gland 5 | | | 5 | | |
| 8. | Write a note on reflex arcs. 5 | | | | 5 | |
| 9. | Define tidal volume and residual volume of lung. 5 | | | | | |
| 10. | Write no | ote on meninges of brain. | | | 5 | |

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Group – C

| | (Long Answer Type Questions) | $2x\ 10 = 20$ | | |
|------|---|---------------|--|--|
| | | | | |
| Ansv | wer any two from the following | | | |
| 11. | Write a note on hormone released from pituitary gland. | 10 | | |
| 12. | Describe the structure of nephron with the help of diagram. | 10 | | |
| 13. | Give the general outline of male reproductive organ. | 10 | | |
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