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P.G. Diploma (C.S.S) EXAMINATION, NOVEMBER 2024 2020, 2021, 2022, 2023 ADMISSIONS SUPPLEMENTARY SEMESTER I - CORE COURSE Clinical Nutrition And Dietetics CN1C01TPGD20 - Human Biomechanics

Time: 3 Hours Maximum Weight: 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

- Write a note on first-line immunity.
- 2. Write a note on various types of muscles and their functions.
- 3. Describe the importance of WBC in blood.
- 4. Discuss the term cardiac cycle.
- 5. Write the exchange of gases at tissue level.
- 6. Discuss the digestive functions of saliva.
- 7. Explain the role of kidney in maintaining acid-base balance.
- 8. Discuss on SIADH.
- Describe the stages of parturition.
- 10. Discuss on diencephalon.

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

- 11. Write the role of various membranous organelles in the cell.
- 12. Differentiate between various leukocytes in the blood.
- 13. Discuss on regulation of heart rate.
- 14. Explain various digestive movements that occur in intestine.
- 15. Discuss the factors affecting GFR.
- 16. Explain the disorders associated with hypersecretion of adrenocortical hormones.
- 17. Discuss the anatomy of mammary gland with an aid of a diagram.
- 18. Discuss on autonomic nervous system.

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

- 19. Discuss in detail the mechanism of muscle contraction with a flowchart and diagram.
- 20. Discuss the structure of heart with a labeled diagram. Explain the regulation of heart rate.
- 21. Discuss the structure and function of nephron with a neat diagram.
- 22. Explain the disorders associated with pituitary gland.

