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| **Subject: Physiology 2** | **Year 2022-2023** |
| **First Year** | **First term** |
| **Total Marks: 50** | **Date: 12 /1/2023** |
| **Prof. Dr. Mona A. Hussain** | **Time Allowed: Two Hours** |

**Choose the best answer:**

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| 1. **Which of the following is the normal value of PH**?  7.4  7.5  7.6  7.7 |
| 2. **Which of the following occurs in metabolic acidosis?**  CO2 increases  PH increases  HCO3 excretion increases  Respiration increases |
| 3. **Which of the following is the fastest mechanism of regulation of acid base** balance?  Renal  Lung  Chemical buffers  Liver |
| 4**. Which of the following is the survival range of pH**  2.1-3.1  4-6.1  6.8-8  8.2-10 |
| 5.**Ionized calcium represents ……%of total plasma calcium**  20  30  40  50 |
| 6. **Non hormonal mechanism of calcium homeostasis is rapid**  TRUE  FALSE |
| 6. **Which of the following is function of endocrine system**?  Control of growth  Control of reproduction  regulates red blood cells production  All of the above |
| 7. Posterior pituitary gland has which of the following characters?  Development from Rathke's pouch  Has epitheloid cells  Has direct connection with hypothalamus  Secrete growth hormone |
| 8. Respiratory centers located in which of the following?  Hypothalamus  Medulla and pons  Thalamus  Cerebellum |
| 9. Voluntary control system of respiration is located in cerebral cortex  TRUE  FALSE |
| 10. Hypoxia is O2 deficiency in blood  TRUE  FALSE |
| 11. Type of hypoxia that occurs due to decrease of Hemoglobin is which of the following?  Hypoxic  Anemic  Stagnant  Histotoxic |
| 12. Renin is secreted by which of the following?  Kidneys  Liver  Stomach  Brain |
| 13. Which of the following increases sodium from proximal tubules  Renin  Angiotensinogen  AngiotensinII  Aldosterone |
| 14. Which of the following is a term means blueness of the skin and mucous membrane?  Cyanosis  Hypoxia  Asphyxia  Anemia |
| 15. Angiotensin II decreases sodium ions reabsorption in kidneys  TRUE  FALSE |
| 16. Liver cells store iron and vitamins  TRUE  FALSE |
| 17. The liver acts as blood reservoir  TRUE  FALSE |
| 18. Posterior pituitary gland secretes which of the following?  Growth  Prolactin  FSH  ADH |
| 19. Which of the following increases uterine contractions  FSH  LH  ADH  Oxytocin |
| 20. Which of the following increases water reabsorption  FSH  LH  ADH  Oxytocin |
| 21. Parathyroid hormone increases which of the following?  Bone formation  serum calcium  Serum phosphate  All of the above |
| 22. Last step of activation of vitamin D occurs in which of the following?  Skin  Liver  Kidney  Stomach |
| 23. Which of the following describes calcitonin?  Secreted by parathyroid gland  Causes bone destruction  Decreases blood calcium  All of the above |
| 24. Which of the following hormones protect the body skeleton during pregnancy and lactation?  Active vitamin D  Parathyroid  Calcitonin  Insulin |