QP Code:104004 Reg. No.:.....

## First BHMS Degree Supplementary Examinations, August 2013 PHYSIOLOGY & BIOCHEMISTRY- PAPER II

Time: 3 Hours Max Marks: 100

- Answer all the questions
- Draw diagrams wherever necessary

Essays: (2x10=20)

1. Explain the mechanism of synaptic transmission. Explain briefly the properties of synapses.

2. Describe the hormonal, uterine, ovarian changes during different phases of menstrual cycle.

Short notes: (10x5=50)

- 3. Classify hormones. Explain the mechanism of action of hormones.
- 4. What are the clinical features of cretinism and explain how they are produced.
- 5. Compare and contrast the action of epinephrine and nor-epinephrine.
- 6. Explain the cardiovascular and respiratory changes during exercise.
- 7. What is nutrition and balanced diet explain.
- 8. Gastro intestinal hormones
- 9. Explain liver function tests.
- 10. List the secondary sexual characters in male and female.
- 11. Briefly describe the functions of placenta.
- 12. Explain Kreb's cycle.

Answer briefly: (10x3=30)

- 13. Name fat soluble vitamins and brief note on vitamin D.
- 14. List the functions of limbic system.
- 15. What is aphasia and mention its types.
- 16. Zollinger-ellision syndrome.
- 17. What is sham feeding.
- 18. List four functions of hydrochloric acid.
- 19. List the difference between diabetes mellitus and diabetes insipidius.
- 20. Define glycogenesis and glycogenolysis. Explain with one example
- 21. Define basal metabolic rate. Mention three physiological factors which influence BMR.
- 22. Disorders of sleep.

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