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M.B.B.S. PHASE - I Degree Examination - June 2014

Time: 3 Hrs. [Max. Marks: 100]

PHYSIOLOGY - II (RS2 & RS3) QP Code: 1078

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY 2 X 10 = 20 Marks

- 1. Describe the pain pathway. Write important features of fast and slow pain.
- 2. Describe the molecular basis of skeletal muscle contraction. Add a note on isometric contraction.

SHORT ESSAY $10 \times 5 = 50 \text{ Marks}$

- Cushing's syndrome clinical features and their physiological basis 3.
- Hypothyroidism clinical features and their physiological basis 4.
- 5. Action of parathormone
- Thalamic syndrome 6.
- 7. Regulation of water balance by hypothalamus
- 8. Enumerate effects of sympathetic stimulation.
- 9. Explain endometrial changes during menstrual cycle.
- 10. Describe the actions of testosterone in fetal and puberty stage.
- 11. Refractive errors and their correction
- 12. Mechanisms activated in body with exposure to heat. What is heat stroke?

SHORT ANSWERS 10 X 3 = 30 Marks

- 13. EEG changes in Non REM sleep
- 14. Write steps showing fate of acetyl choline at neuromuscular junction.
- 15. Important features of EPSP
- Functions and clinical significance of hCG 16.
- Differences between diabetes mellitus and diabetes insipidus 17.
- Write three actions of glucagon. 18.
- Actions of progesterone on fallopian tube, myometrium and mammary glands 19.
- Explain 3 mechanisms involved in dark adaptation. 20.
- Explain in brief impedance matching. 21.
- 22. Draw olfactory pathway.