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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

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

SHORT ESSAY 10 X 5 = 50 Marks

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

SHORT ANSWERS 10 X 3 = 30 Marks

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