www.FirstRanker.com

www.FirstRanker.com Reg. no.: .....

Q.P. Code: 104001

First Professional MBBS Degree Supplementary Examinations, February 2014

## PHYSIOLOGY- PAPER II

Time: 3 Hours Total Marks: 50

- Answer all questions
- Draw Diagrams wherever necessary

Long essay

(10)

- A 70 years old hypertensive male has come to the hospital with complaints of inability to use the right upper and lower limb. Physical examination revealed hypertonia + and exaggerated deep tendon reflexes on the right side. Babinski's sign was positive on the right side. Answer the following questions based on your knowledge in physiology:
  - Name the clinical condition
  - Explain the physiological basis of the above findings
  - Differentiate between upper and lower motor neuron lesion.
  - Why Babinski's sign is positive.

(1+5+3+1=10)

Short essays (2x5=10)

- Describe about spermatogenesis and the hormonal factors regulating it.
- Name the nuclei of hypothalamus. Enumerate the functions of hypothalamus and siRanker.co describe any one in detail.

Answer briefly (5x3=15)

- Functions of growth hormone
- Aphasia.
- Functions of limbic system
- Functions of placenta.
- Intra uterine contraceptive devices.

Draw and label  $(2x2\frac{1}{2} = 5)$ 

- Functional areas of cerebral cortex.
- Organ of corti.

## Explain the physiological basis of the following

(5x2=10)

- Lumbar puncture is done at L<sub>2</sub> L<sub>3</sub> level.
- Dark adaptation.
- Pain disappears by rubbing the affected area.
- Body temperature is slightly elevated after ovulation.
- Pigmentation is seen in Addison's disease.



\*\*\*\*\*\*\*\*