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2019 Scheme

Q.P. Code: 114001

Reg. no.:

First Professional MBBS Degree Supplementary (SAY) Examinations August 2021 Physiology II

Time: 3 Hours

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Long Essays

 A young female exhibits abnormal fatigability of muscles. Muscular movements, though initially strong, rapidly tire as the day advances or after a vigorous exercise. The symptoms to appear are ptosis, weakness of chewing, swallowing and speaking. She was unable to undertake work above the level of the shoulder. The symptoms showed a remitting course and often were precipitated by emotions, infections and pregnancy.

Remarkable recovery was seen after injection of neostigmine intramuscularly.

- What is your diagnosis
- Name the structure involved in this disease.
- Describe the structure involved and the normal physiological mechanism of it.
- What is the main cause for this condition
- Name any other condition that can affect this structure
- How does injection of neostigmine improve the condition. Describe other drugs which can act at this site. (1+ 1+7+2+1+3)
- Describe the origin, course and termination and functions of cortico-spinal tract. Add a note on hemiplegia. List the differences between upper motor neuron and lower motor neuron lesion. (7+3+5)

Short essays

- 3. Inter-cellular communication.
- 4. Describe the functions of aldosterone. Explain aldosterone escape. Add a note on Conn's syndrome.
- 5. Describe the visual pathway with a help of a neat labelled diagram and explain the effects of its lesion. Add a note on direct and indirect light reflex.
- 6. Describe the functions of testosterone in fetal and adult life. What is cryptorchidism.
- 7. Describe the mechanism of action of insulin and its functions. Add a note on clinical signs and symptoms of diabetes mellitus. Explain glucose tolerance test curve.

(PTO)

(5x8=40)

Total Marks: 100

(2x15=30)

Write briefly

(10x1=10)

- 8. Draw and label the audiogram in conductive deafness. Super impose a normal audiogram on it.
- 9. Describe the mechanism of transduction of sweet and salt sensation. Add a note on ageusia.
- 10. Describe the properties of skeletal muscle.
- 11. Classify hormones. Explain positive feedback.
- 12. Draw and label a skeletal muscle action potential and indicate the ionic basis of each part.

One word Answers

- 13. Pushing the wall is an example for ----- contraction.
- 14. Minimum strength of current given indefinitely to excite a tissue is called as ------
- 15. Glycine is an example of ----- neurotransmitter
- 16. The receptor for inverse stretch reflex is -----
- 17. In spinal cord the dorsal root is sensory and the ventral root is motor, this law is called
- 18. Compound action potential is produced by ------ nerve.
- 19. Fluid present in inner ear is ------
- 20. The phase of menstrual cycle occurring after ovulation is called ------
- 21. Cerebro spinal fluid is absorbed by ------
- 22. Permanent method of sterilization in males is ------

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