

## 2019 Scheme

Q.P. Code: 114001

Reg. no.: .....

**First Professional MBBS Degree Supplementary (SAY) Examinations  
May 2022  
Physiology II**

Time: 3 Hours

Total Marks: 100

- 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**

(2x15=30)

1. A 45-year-old casual labourer comes to the OPD with complaints of excessive thirst, urination, hunger and weakness, of two weeks' duration with your knowledge of physiology, answer the following.
  - What is the most likely condition.
  - What tests would you suggest to confirm.
  - How can you explain his symptoms.
  - What are the dietary and lifestyle modifications you would suggest for this man.(2+5+6+2)
2. Describe brown sequeard syndrome. With the help of a diagram explain the nervous system involvement in this disease. (8+4+3)

**Short essays**

(5x8=40)

3. Functions of middle ear
4. Explain chronaxie, rheobase and strength duration curve
5. Diagram of neuro-muscular junction. Add a note on neuromuscular blocking drugs.
6. Functions of placenta.
7. Cerebrospinal fluid.

**Write briefly**

(5x4=20)

8. Differentiate between Turner's syndrome and Klinefelter's syndrome.
9. With the aid of a diagram explain resting membrane potential.
10. Classify synapse. Write about the properties of synapses.
11. Any two characteristic features and their physiological basis of Hypothyroidism in a 30-year-old woman
12. Draw and label the Dorsal column pathway from right lower limb.

**One word Answers**

(10x1=10)

13. The site of lesion in Argyll Robertson pupil is .....
14. Site of secretion of somatomedins.....
15. ECF volume is determined by ..... ion.
16. One example for lateral inhibition.....
17. The cells involved in blood testis barrier is .....
18. The reason for presbyopia is loss of .....
19. The wheal in the triple response is due to .....
20. The receptor involved in the inverse stretch reflex.....
21. Another name for programmed cell death is .....
22. The most abundant cell type in the islets of Langerhans is .....

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