

2010 Scheme

Q.P. Code: 104001

Reg. No.:

First Professional MBBS Degree Supplementary Examinations January 2024

Physiology – Paper II

Time: 3 Hours

Total Marks: 50

- *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 essay

(10)

1. A 55 year old women comes to the medicine department with history of increased frequency of nocturnal urination with increased thirst and hunger, investigation revealed her HbA1c to be 8 and fasting blood sugar was 280mg/dl
 - a) What is your probable diagnosis
 - b) Discuss the physiological basis of her complaints
 - c) List all the hormones responsible for glucose homeostasis

(2+6+2)

Short essays

(2x5=10)

2. Describe the functions of cerebellum
3. Describe the visual pathway using a labelled diagram

Answer briefly

(5x3=15)

4. Steps of spermatogenesis
5. Discuss the differences between red and white muscle fibres
6. Describe secondary active transport using an example
7. Describe the functions of the middle ear
8. Describe the regulation of blood calcium level

Draw and label

(2x2½=5)

9. Dorsal column pathway
10. Gastric HCl (Hydrochloric acid) synthesis

Explain the physiological basis of the following

(5x2=10)

11. Pain of Myocardial Infarction (MI) can be felt on the left upper arm
12. Intra Uterine Contraceptive Device (IUCD)
13. Mental retardation in cretinism
14. Myasthenia gravis
15. Onset of puberty
