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01112B

First M.B.B.S. (2019) Examination, (Phase - I) Winter - 2023
PHYSIOLOGY - II

Total Duration : Section A + B = 3 Hours

Section B Marks : 80

SECTION - B

- Instructions :**
- 1) Use **black** ball point pen only.
 - 2) **Do not** write anything on the **blank** portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) All questions are compulsory.
 - 4) The number to the **right** indicates **full** marks.
 - 5) Draw diagrams wherever necessary.
 - 6) Distribution of syllabus in Question Paper is only meant to cover the entire syllabus within the stipulated frame. This format is a mere guideline. Questions from the syllabus can be asked in any paper. Students can not claim that the Question is out of syllabus, as this format and distribution has been given only for the sake of placement.
 - 7) Use a common answer book for sections.

2. Brief Answer Question (Any Ten out of Eleven): **[10×2=20]**

- a) Mention any two taste papillae along their location.
- b) Write characteristic features of cerebellar dysfunction.
- c) What is monosynaptic reflex? Give examples
- d) What is myxedema? Give its treatment?
- e) What are effects of LH surge?
- f) Define anosmia and hyposomia.
- g) Enumerate properties of receptors.
- h) What is precocious puberty?
- i) Differentiate between REM & NERM sleep?
- j) What are mechanism of heat loss in our body?
- k) Draw a well labelled Diagram of Sarcomere.

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3. Short Answer Question (Any Eight Out of Nine) : **[8×5=40]**

- a) A 50-year-old man with stooped posture consulting a neurologist was found to have resting tremor, which disappeared on voluntary movement, expressionless face and a short shuffling gait. He showed muscular rigidity.
 - i) What is diagnosis?
 - ii) What is cause of disease?
 - iii) What is physiological basis of treatment?
- b) Write functions of middle ear.
- c) Give the cause, clinical features and mode of treatment in Cushing disease.
- d) Discuss gait control theory of pain? Explain the clinical application?
- e) Define and classify colour blindness?
- f) A middle aged man was found to have gunshot injury in back and on examination it was found on same side of injury there was extensive motor loss but minimal loss of sensation and on opposite side there was extensive sensory loss & no motor loss?
 - i) What is the name of condition?
 - ii) Which type of spinal shock is it?
 - iii) Give the treatment.
- g) Name the hormones that influence growth of the body. State their roles in different stages of life?
- h) Discuss the mechanism of muscle contraction?
- i) Discuss the methods of contraception in males?

4. Long Answer Questions (Any Two out of Three) : **[2×10=20]**

- a) Describe the types and functions of nerve fibres based on Erlanger and Gasser's classification? Add a note on compound action potential?
- b) Describe in detail the origin, course, function and termination of cortico-spinal tract? Add a note on Babinski sign?
- c) Describe functions of parathyroid hormone and how blood calcium level is regulated? Add a note on tetany.

