

**0122 E019**

# **First Year MBBS Examination**

## **I MBBS Physiology Paper 2**

Date: 06-01-2022

Time: 3 hours

Max Marks: 100

Instructions: 1. Answer to the points. 2. Use separate answer books for each section. 3. Draw diagrams wherever necessary.

### **Section 1**

1. Write the following structured long question (any 1 out of 2) (10)
  - a. Enumerate various basal gangli Describe connections and function of basal gangli
  - b. Describe structure of muscle spindle. Describe role of muscle spindle in the control of muscle tone.
2. Write the following case - based scenario / applied short notes (any 2 out of 3) (12)

~~a. 30 year female from poor socioeconomic~~

- condition complaint about her 1 year male child of weakness, retarded growth, always drowsy, protruded tongue and abdomen, skin is dry. On history she said her diet was improper and during period of pregnancy could not go to village hospital due to lack of knowledge. a) What is the diagnosis and cause of disorder in the baby? b) What is treatment and complications of disorder if treatment is not started at the earliest? c) How to prevent this order?
- b. A 50 year male complaint of drooping of right upper eyelid, double vision since one month, slurring of speech since twenty days, progressive weakness in muscle activity after continuous work for 15-20 minutes and improves after taking rest, for few minutes. On examination he has no any nervous abnormality detected. No H/o trauma to eyes, fever, deviation of angle of mouth, drooping of saliva. a) What is diagnosis and cause of disorder? b) What is the reason of weakness of muscle which improves after rest? c) What is the treatment for this disorder?
- c. What is Parkinsonism. Describe clinical features. What is the physiology of treatment.
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3. Write short notes (any 3 out of 4) (18)
- a. Functions of stomach.
  - b. Spermatogenesis and factors affecting it.
  - c. Immunological pregnancy test.
  - d. Steatorrhoe
4. Answer in only 2-3 sentence (any 5 out of 6) (10)
- a. Students experiences diarrhea during examination period.
  - b. Factors which increase CCK- PZ and secretin.
  - c. Regular history of menstrual cycle is useful in planning of pregnancy.
  - d. While drinking and swallowing one should not divert attention in talking or laughing.
  - e. Sensation of pain felt after amputation of limb at the stump.
  - f. The muscles of extremity get relaxed if attempt to lift very heavy weight.

## **Section 2**

1. Write the following structured long question (any 1 out of 2) (10)
- a. Describe mechanism and action of insulin
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on carbohydrate, fat and protein metabolism.

- b. Describe Control of growth hormone secretion. Add note on acromegaly.

2. Write short notes (any 2 out of 3) (12)

- a. Describe factor affecting nerve conduction.
- b. Describe sarcotubular system in the skeletal muscle.
- c. Compare white and red muscle fiber.

3. Write short notes (any 3 out of 4) (18)

- a. Errors of refraction.
- b. Role of middle ear in the mechanism of hearing.
- c. Types of deafness.
- d. Taste pathway.

4. Answer in only 2-3 sentence (any 5 out of 6) (10)

- a. Polyurea is common in the diabetes mellitus.
  - b. Voice must be raised when conversing in the noisy environment.
  - c. Two division of ANS act synergistic manner.
  - d. Exposure to darkness induces sleep in
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human.

- e. Mill worker do not show sneezing or watering from the nose in their working environment.
- f. The enteric nervous system is considered as third division of ANS.

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