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MANIPAL ACADEMY OF HIGHER EDUCATION
FOURTH SEMESTER M.Sc. (MEDICAL PHYSIOLOGY)
DEGREE EXAMINATION – AUGUST 2020

SUBJECT: ENDOCRINOLOGY (MPY 702)

Monday, August 03, 2020

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

Answer ALL the questions.

1. Describe in detail the role of insulin in glucose homeostasis. Enumerate the various signs and symptoms of diabetes mellitus and their physiological basis.
(6+4 = 10 marks)
2. Describe in detail the synthesis of thyroid hormone. Add a note on anti-thyroid drugs.
(7+3 = 10 marks)
3. **Write short notes on:**
 - 3A. Mention the normal calcium level in the plasma. Add a note on the role of parathyroid hormone in calcium homeostasis.
 - 3B. Name the posterior pituitary hormones. Explain the actions of any one hormone.
 - 3C. Describe the etiology, clinical-features and physiological basis of Graves disease.
 - 3D. Mention the physiological actions of growth-hormone. Explain any one.
 - 3E. What is neuroendocrine-reflex? Give examples. Explain any one in detail.
 - 3F. Explain the actions of cortisol.(5 marks × 6 = 30 marks)



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FOURTH SEMESTER M.Sc. (MEDICAL PHYSIOLOGY)
DEGREE EXAMINATION – AUGUST 2020

SUBJECT: REPRODUCTION, GIT (MPY 704)

Tuesday, August 04, 2020

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Describe how the autonomic nervous system regulates salivary secretion. List all functions of saliva.

(10 marks)

2. Describe the phases of ovarian cycle. Mention the indicators of ovulation.

(10 marks)

3. **Short answer type:**

3A. Digestion of carbohydrates

3B. Defecation reflex

3C. Functions of Sertoli cells

3D. Physiological changes in pregnancy

3E. Hormones in lactation

3F. Functions of colon

(5 marks × 6 = 30 marks)

