

**PARUL UNIVERSITY**  
**FACULTY OF APPLIED SCIENCE**  
**B.Sc. Winter 2017-18 Examination**

**Semester: 5**  
**Subject Code: 11103302**  
**Subject Name: Endocrinology**

**Date: 18/12/2017**  
**Time: 2.00 pm to 4.30 pm**  
**Total Marks: 60**

**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1. A) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**  
 (a) Brief note on classification of hormones. (b) Brief note on athlete steroids.
- Q.1. B) Answer the following questions (Any two) (04)**  
 (a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)  
 1. List out hormones of ovaries and testes.  
 2. Draw a diagram of adrenal gland and label it.  
 (b) Short note on pituitary gland. (04)  
 (c) Short note on diabetes. (04)
- Q.2. A) Answer the following questions. (04)**  
 (a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)  
 1. Explain cascades and feedback loops in endocrinology.  
 2. Write about the receptors and target tissues of steroid hormones.  
 (b) Short note on GI hormones. (04)
- Q.2. B) Answer the following questions (Any two) (03)**  
 (a) Short note/ Multiple choice questions. (Each of 01 marks) (03)  
 1. \_\_\_\_\_ is a fight or flight hormone.  
 a) Adrenaline                      b) Insulin                      c) Glucocorticosteroid  
 2. \_\_\_\_\_ hormone is responsible to increase uterine contractions during parturition.  
 a) Estrogen                      b) Oxytocin                      c) Progesterone  
 3. Which of these is a steroid hormone?  
 a) cortisol                      b) GH                      c) TH  
 (b) Short note on brief history of endocrinology. (03)  
 (c) Short note on steroids responsible for reproductive behavior. (03)
- Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**  
 (a) Brief note on glucagon. (b) Brief note on thyroid hormone.
- Q.3. B) Answer the following questions (Any two) (04)**  
 (a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)  
 1. Short note on Thyroid gland.  
 2. Write a note on cell growth factors.  
 (b) Short note on neuroendocrinology. (04)  
 (c) Short note on pineal gland. (04)
- Q.4. A) Answer the following questions. (04)**  
 (a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)  
 1. Write about endocrinology of pregnancy.  
 2. Write a note on gonadal differentiation.  
 (b) Short note on calcium regulation. (04)
- Q.4. B) Answer the following questions (Any two) (03)**  
 (a) Short note/ Multiple choice questions. (Each of 01 marks) (03)  
 1. A urine test in an undiagnosed diabetes may show  
 a) Glucose and ketones in the urine    b) Ketones in the urine    c) Ketones and the  
 adrenaline in the urine  
 2. Which of the following is the site of secretion of intrinsic factor?  
 a) Gastric antrum                      b) Gastric fundus                      c) Duodenum  
 3. Which of the following stimulates the synthesis of milk protein?  
 a) LH                      b) PRL                      c) GH  
 (b) Short note on free martins. (03)  
 (c) Short note on prostaglandins. (03)