



**DII-003-018405**

Seat No. \_\_\_\_\_

**M. Sc. (Sem. IV) (CBCS) Examination**

**May / June – 2015**

**423 : Zoology**

**(Endocrinology & Reproductive Physiology)**

**Faculty Code : 003**

**Subject Code : 018405**

Time : Hours]

[Total Marks : 70

1. Answer the following very briefly (**any seven**): **2×7=14**
  - (a) Define local hormones.
  - (b) Name some pituitary hormones.
  - (c) Name some gonadal hormones.
  - (d) Define IVF.
  - (e) Define neurohypophysis.
  - (f) What is autocrine glands?
  - (g) What is neurosecretions?
  - (h) Define polycystic ovary syndrome.
  - (i) What is intrauterine insemination (IUI)?
  - (j) Define surrogacy.
  
2. Answer of the following (**any two**): **7×2=14**
  - (a) Give a detailed account on the mechanism of hormone action.
  - (b) Give a complete illustrated account of parathyroid gland and its hormones.
  - (c) Give a detailed account of the role of local hormones.
  
3. Answer the following: **7×2=14**
  - (a) Describe the insulin and blood-glucose regulation.
  - (b) Describe the hormones of endocrine pancreas and their functions.

**Or**

  - (a) Describe the gonadal hormone and their functions.
  - (b) Describe the functions of kidney hormones.
  
4. Answer the following: **7×2=14**
  - (a) Describe the renin-angiotensin system and its role in blood pressure regulation.
  - (b) Describe the contraceptive technologies and IVF.
  
5. Answer the following (**any two**): **7×2=14**
  - (a) Write a short note on biosynthesis of thyroid hormones and its control.
  - (b) Describe the adrenal gland hormone and their functions.
  - (c) Briefly describe the physiology of sexual development.
  - (d) Describe the reproductive disorders.

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**[100]**