



DO-003-1184005

Seat No. _____

M. Sc. (Sem. IV) (CBCS) (W.E.F. 2016) Examination

March - 2022

Z-423 : Zoology

(Endocrinology & Reproductive Physiology) (Elective)

Time : **2.30** Hours]

[Total Marks : **70**

1 Answer the following very briefly (any seven) **2x7=14**

- (a) Define neurohypophysis.
- (b) Define endometriosis.
- (c) Name some gonadal hormones.
- (d) What is neurosecretions ?
- (e) What is hysterosalpingogram (HSG) ?
- (f) What is autocrine glands ?
- (g) Define local hormones.
- (h) Give causes of infertility in male
- (i) What is intrauterine insemination (IUI) ?
- (j) Define polycystic ovary syndrome.

2 Answer of the following (any two) : **7x2=14**

- (a) Give a complete illustrated account of parathyroid gland and its hormones.
- (b) Describe the adrenal gland hormone and their functions
- (c) Give a detailed account on the mechanism of hormone action.

3 Answer the following : **7x2=14**

- (a) Describe the insulin and blood-glucose regulation.
- (b) Describe the functions of kidney hormones.

OR

- (a) Describe the gonadal hormone and their functions.
- (b) Give a detailed account of the role of local hormones.

4 Answer the following : **7x2=14**

- (a) Write a short note on biosynthesis of thyroid hormones and its control.
- (b) Briefly describe the physiology of sexual development.

5 Answer the following (any two) **7x2=14**

- (a) Describe the renin-angiotensin system and its role in blood pressure regulation.
 - (b) Describe the hormones of endocrine pancreas and their functions.
 - (c) Describe the reproductive disorders.
 - (d) Describe the contraceptive technologies and IVF.
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