25/05/2022 (M)

[This question paper contains 4 printed pages.]

Your Roll No.

Sr. No. of Question Paper: 1328

Unique Paper Code : 32237910

Name of the Paper : Reproductive Biology (DSE)

Name of the Course : B.Sc. (Hons.) Zoology

Semester : VI (LOCF)

Duration: 3 Hours Maximum Marks: 75

Instructions for Candidates

- 1. Write your Roll No. on the top immediately on receipt of this question paper.
- 2. Attempt any five questions in all including Question No. 1 which is compulsory.
- 1. (a) Differentiate between the following (any five): $(2\times5=10)$
 - inn
 - (i) Theca externa and Theca interna
 - (ii) Vasectomy and Tubectomy
 - (iii) Luteotrophic factors and luteolytic factors

40	2
(iv)	Gonadotropin receptors and steroid receptors
(v)	ART and contraception
(vi)	Caput and Cauda Epididymis
(b) Define	the following (any eight): $(1.5\times8=12)$
(i)	Second messenger
(ii)	Ectopic pregnancy
(iii)	Spermiation
(iv)	Diapause
(v)	Cortical reaction
(vi)	Oligospermia
(vii)	Superovulation
(viii)	Puberty
(ix)	Braxton-Hicks contractions
(x)	Infertility

	(c) Match the followi	ng:	(1×5=	=5)
	(i) hÇG	(a)	Aromatase activity	
	(ii) PRL	(b)	Milk production	
	(iii) Oxytocin	(c)	Pregnancy detection hormo	ne
	(iv) FSH .	(d)	Uterine contraction	
	(v) Progesterone	(e)	Pregnancy maintenance	
2.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	hormones secreted by t in maintaining gestation	
3.	(a) What is moont	h		
3.	Discuss any four		gestational adaptations tations.	(6)
	(b) Describe the folliculogenesis in			of (6)
1	isan (anas) s	1	ng Stengamat mraqil (a)	
4.	contraceptive met		P Discuss any four types.	(9)
	(b) Discuss the role of	of de	cidua in implantation.	
				(3)
			P.T.	O.

- 5. (a) With the help of well-labelled diagram describe the process of spermiogenesis. Compare the role of Leydig cells and Sertoli cells in spermatogenesis.

 (6+6=12)
- 6. (a) How does fetal endocrine system control parturition? (3)
 - (b) With the help of diagrams, explain the development of mammary glands. Give hormonal control of milk production (9)
- 7. Write short notes (any three): $(4\times3=12)$
 - (a) Mode of steroid action
 - (b) Foeto-placental unit
 - (c) Estrous cycle
 - (d) Types of implantation
 - (e) Sperm transport in male genital tract