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SET C

12. DEC 322
Reproductive Biology

This Question paper contains three printed pages				
Roll No.:				
Serial No. of Question paper: 1636 Unique Paper Code: 32237910 Name of the course: B.Sc. (Prog) Life Science				
			Name/title of the Paper : Reproductive Biology- LOCF	
			Semester: V	
Duration: 3 hours				
Maximum marks: 75				
Instructions to candidates:				
1. Write your Roll No. on the top immediately on receipt of this question paper.				
2. Attempt five questions in all, including question No. 1 which is compulsory.				
Q1. (a) Define the following terms:  (i) Spermatogenesis  (ii) Menopause  (iii) Implantation  (iv) Azoospermia  (v) Hysterectomy	(5)			
<ul> <li>(b) Differentiate between the following pairs of terms (any three):</li> <li>(i) Steroid hormones and glycoprotein hormones</li> <li>(ii) Primary follicle and secondary follicle</li> <li>(iii) Primary and secondary infertility</li> <li>(iv) Spermiogenesis and spermiation</li> </ul>	(6)			
(c) Fill in the blanks:  (i) is the enzyme that converts testosterone to estrogen.  (ii) Based on the histology, the type of placenta found in humans is  (iii) The testicular cell that produces androgen is	(6)			

is the hormone causing the	release of milk during lactation.
(iv) is the hormone causing the (v) The hypothalamic hormone	_ causes the release of golden a
C Al- a systematical designation of the control of	
(vi) Sperm maturation occurs in	
	c 11
(d) Write the location and one function of each of the	following.
(i) Sertoli cell	
(ii) Corpus luteum	
(iii) Montgomery's gland	
(iv) Endometrium	
(v) Seminal vesicle	
	(5)
(e) Expand the following terms:	
(i) ABP	
(ii) GPCR	
(iii) FSH	
(iv) PROST	
(v) 17β-HSD	
	finfartility in males
Q2. (a) Define infertility and describe the major causes of	of intertuity in males.
(b) Describe various types of barrier methods of con	traception.
Q3. Discuss the hormonal, ovarian, and uterine char	(12)
Q4. What is foeto-placental unit? Explain the important	rtance of the foeto-placental unit during
Q4. What is foeto-placental unit? Explain the impo-	(12)
gestation.	
Q5. (a) Discuss the two-cell hypothesis of estrogen bio	synthesis and with the help of a flowchart,
Q5. (a) Discuss the two-cell hypothesis of estrogen biosynthesis	
explain the process of estrogen biosynthesis.  (b) Draw a well-labeled diagram of transverse sections.	ion (T.S.) of the testis. $(8+4)$
(b) Draw a well-labeled diagram of transverse seem	
of with the tracted on any three of the following:	(3×4)
Q6. Write short notes on any three of the following:	
(a) Prostate gland	
(b) Hormonal regulation of spermatogenesis	
<ul><li>(c) IUCD</li><li>(d) Role of prostaglandin in parturition</li></ul>	York, The Street of the Street
(d) Role of prostaglation in parture (e) Ferguson's reflex	
(e) rerguson's tenex	