T(6th Sm.)-Physiology-H/CC-13/CBCS

2021

PHYSIOLOGY — HONOURS

Paper : CC-13

Full Marks : 50

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

1. Answer *any five* questions :

2×5

- (a) Mention one accessory sex organ of male and mention its function.
- (b) Why are the testes localized in scrotum instead of being placed in the abdominal cavity?
- (c) Mention two symptoms of menopause.
- (d) What is the Blood-Testis Barrier?
- (e) What is Totipotency?
- (f) What is Blastulation?
- (g) What is Puberty?
- (h) Define capacitation of the sperm.
- (i) What is Hysterectomy?
- (j) What is Galactorrhoea?
- 2. Answer any two questions :

	(a)	Disc	cuss the histological structure of adult ovary with a suitable diagram.	5
	(b)	Des	cribe foetal circulation with its special characteristics.	5
	(c)	Des	cribe the formation and function of Corpus Inteum.	3+2
	(d)	Ном	v is lactation initiated after parturition?	5
	(e) Write short note on foeto-placental unit.			5
3.	Answer any three questions :			
	(a)	(i)	What is gastrulation?	
		(ii)	Describe induction, determination and differentiation in gastrulation.	1+3+3+3
	(b)	(i)	Describe the physiological mechanism of ovulation.	
		(ii)	Discuss the process of development of mammary gland with diagram.	5+5

Please Turn Over

(2)

(c)	(i)	Distinguish between adult stem cells and embryonic stem cells.	
	(ii)	Elucidate the neuroendocrine mechanisms that control parturition.	4+6
(d)	(i)	Distinguish between menstrual and estrous cycle.	
	(ii)	Write a note on Fertilization.	4+6
(e)	(i)	Describe the hypothalamic-pituitary-testis axis on the basis of feedback mechanism.	
	(ii)	Describe the Oogenesis process in humans.	5+5
(f)	(i)	Describe the embryological development of urinary bladder and urethra.	
	(ii)	What are committed stem cells?	(4+4)+2