

2021

ZOOLOGY — HONOURS

Paper : DSE-B-2

(Reproductive Biology)

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.*

Answer **any ten** questions.

1. Name one steroid hormone and discuss its mechanism of action. 1+4
2. Describe the structure of a Graafian follicle with a labelled diagram. 2½+2½
3. What is capacitation? Mention its significance. 2+3
4. What do you mean by accessory sex organs? Mention the function of accessory sex organs in males. 2+3
5. Discuss the biosynthetic steps of estradiol from pregnenolone with necessary enzymes. 5
6. What is superovulation? How it is done? 2+3
7. Distinguish between the following : 2½×2
 - (a) IVF and IUI
 - (b) ZIFT and GIFT.
8. What do you mean by parturition? How does oxytocin regulate parturition? 2+3
9. Define infertility. What are the causes of male infertility? 2+3
10. What is implantation? State the role of progesterone in implantation. 2+3
11. Write short notes on : 2½×2
 - (a) Lactational Amenorrhoea
 - (b) Hormonal impact of oral contraceptives.
12. (a) Discuss the process of preserving sperms in sperm banks. 3+2
(b) Mention two most important criteria to select sperms for IVF.

Please Turn Over

13. Write the full form of AMH. Mention its role in development and differentiation of genital ducts. 2+3
 14. What is gestation? State the role of human chorionic gonadotropin in gestation. 2+3
 15. Discuss briefly the hormonal regulation of spermatogenesis. 5
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