



বিদ্যাসাগর বিশ্ববিদ্যালয়  
**VIDYASAGAR UNIVERSITY**  
**Question Paper**

**B.Sc. Honours Examinations 2022**

(Under CBCS Pattern)

**Semester - VI**

**Subject : PHYSIOLOGY**

**Paper : C 13-T**

**Reproductive Physiology, Embryology and Chronobiology**

**Full Marks : 40**

**Time : 2 Hours**

*Candidates are required to give their answers in their own words as far as practicable.*

*The figures in the margin indicate full marks.*

**Group-A**

Answer any *four* of the following questions :

5×4=20

1. What is menopause? Discuss the hormonal changes during menstrual cycle. 1+4
2. Define placenta. How foetal circulation changes after birth? 1+4
3. Write the process of penetration of sperm into ovum. 5
4. What is estrous cycle? Briefly discuss the previtellogenic phase of oocyte maturation. 3+2
5. Why zygotic division is called cleavage instead of classical cell division? What is gastrulation? 3+2

6. State the role of Suprachiasmatic Nuclei (SCN) in the regulation of biological clock. 5

**Group-B**

Answer any *two* of the following questions : 10×2=20

1. Describe the mechanism of parturition in man. Mention the various factors regulating parturition. 5+5
  2. Define pharmacogenetics. Write a brief note on in vitro fertilization. What is endometriosis? 2+5+3
  3. What are morula and blastula? State the importance of zeitgeber on circadian rhythm. Give a brief idea on jet lag. 4+3+3
  4. What is implantation? Describe the development of heart in human foetus with diagramme. 2+(5+3)
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