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BMLT/7th Sem/25(CBCS)

2025

7th Semester Examination

**ASSISTED REPRODUCTIVE
TECHNOLOGY AND HUMAN
EMBRYOLOGY LAB**

Paper : BMLT CC 16-T

(CBCS)



Full Marks : 40

Time : Two Hours

The figures in the margin indicate full marks.

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

Group - A

Answer any **five** questions : $2 \times 5 = 10$

- ✓ 1. Write the difference between infertility and sterility.
- ✓ 2. Write any two causes of male infertility.
3. Why 100% success rate is not achieved by IUI?
- ✓ 4. What is fertilization?
5. What is monozygotic twin?
- ✓ 6. What is aminocentesis?

P.T.O.

(2)



- ✓7. Write the full forms of ICSI and GIFT.
- ✓8. Name any two hormones involved in pregnancy.

Group - B

Answer any *four* questions : $5 \times 4 = 20$

- ✓9. What is cleavage? Briefly describe the general process of fertilization. $1+4$
- ✓10. State the transvaginal ultrasound guided follicular rupture technique for collection of oocytes. What is Assisted Reproductive Technology (ART)? $3+2$
11. Describe in detail the structures of male and female gametes. Write the difference between them. $3+2$
- ✓12. What is blastocyst? Why the success rate of IVF-BT is not more than 40%? $2+3$
- ✓13. Write the function of placenta. Why practically IUI is not permitted for more than 3 times? $3+2$
14. Write the molecular basis of ovulation. 5

Group - C

Answer any *one* question : $10 \times 1 = 10$

15. Write the role of capacitation of sperm on fertilization. Write the steps of genital system development. $3+7$

(3)

16. Write the sperm preparation process in connection with IUI. What is cortical reaction? Write the impact of the cortical reaction of oocytes on monospermic fertilization in human.

5+2+3

