

**M. Sc. 2nd Semester Examination, 2025**

**BIO-MEDICAL LABORATORY SCIENCE**

**& MANAGEMENT**

**PAPER – BML-201**

*Full Marks : 50*

*Time : 2 hours*

**Answer all questions**

*The figures in the right hand margin indicate marks*

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

**GROUP – A**

**Answer any four of the following questions :**

**2 × 4**

- 1. What is seminiferous tubule cilliary syndrome?**
- 2. Write the full forms of GIFT and SUZI.**

*( Turn Over )*

3. Define teratospermia.
4. Write any two major causes of male infertility.
5. Why are sertoli cells known as nurse cells of sperms ?
6. Write any two criteria of induced ovulation.

**GROUP – B**

Answer any four of the following questions :

4 × 4

7. Write the conditions of infertile couple for adoption of ICSI.
8. State the sperm preparation for IUI.
9. Describe any four major causes for male infertility.

( 3 )

10. Why is 100% success not achieved in IVF-BT ?
11. Describe the mode of actions of hormonal contraceptives. What is emergency contraceptive ? 3 + 1
12. Discuss the role of thyroxine on spermatogenesis.

### GROUP - C

Answer any two of the following questions :

- $8 \times 2$
13. Discuss the preparation of female partner of infertile couple for adoption of IUI. What is sperm viability ? 6 + 2
14. Discuss the role of insulin, LH and FSH on spermatogenesis. What is spermiogenesis ? 6 + 2
15. Write the importance of gamet bank in reproductive biology. Write the importance of hypoosmolarity test of sperm. 4 + 4

( 4 )

**16. Discuss the biochemical model of implantation. Write the role of IUD for contraception.**

5 + 3

**[ Internal Assessment — 10 Marks ]**