

2022

M.Sc.

2nd Semester Examination
**BIOMEDICAL LABORATORY SCIENCE
AND MANAGEMENT**

PAPER—BML-201

**REPRODUCTIVE EVENTS AND
ASSISTED REPRODUCTIVE TECHNOLOGY**

Full Marks : 50

Time : 2 Hours

The figures in the margin indicate full marks.

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

Illustrate the answers wherever necessary.

Group—A

Answer any four questions.

4×2

1. Write the full forms of GIFT and ICSI.

(Turn Over)

2. Write the role of cyproterone acetate in artificial ovulation.
3. What are the major criterions of matured graafian foilicles for ovulation ?
4. Why do sperm use fructose instead of glucose ?
5. Write the role of p̄rotamines in human reproduction.
6. What is meant by cryptozoospermia ?

Group—B

Answer any *four* questions.

4×4

7. Describe treatment regimen for induced ovulation in IUI.
8. Write the conditions those should be fulfilled for adoption of ICSI.

9. Describe the sperm viability test.
10. "Only the unbound fraction of testosterone is biologically active" — Justify the statement.
11. Write a short note on capacitation.
12. Write the conditions for adoption of IVF.

Group—C

Answer any *two* questions. 2×8

13. Discuss the conditions where IUI is adopted. Why is IUI not followed after 2-3 attempts. 6+2
14. Write step by step events followed in ICSI to challenge infertility.
15. Write the names and functions of fluid-producing glands in male reproductive system. How does acrosomal reaction help in penetration of ovum? 5+3

16. Describe the factors for onset of hypogonadism and hypergonadism. 4+4

[Internal assessment - 10]
