

2024

M.Sc. 2nd Semester Examination

**BIOMEDICAL LABORATORY SCIENCE
AND MANAGEMENT**

PAPER : BML-201

Full Marks : 40

Time : 2 hours

The figures in the right-hand margin indicate 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* of the following questions :

2×4=8

1. Define super ovulation.
2. What is ectopic pregnancy?
3. What is the mode of action of clomiphene?

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(Turn Over)

(2)

4. State antisperm antibody related to female infertility.
5. Define two cells two gonadotropins hypothesis.
6. What is oocyte-cumulus-corona complex?

GROUP—B

Answer *any four* of the following questions :

4×4=16

7. Write the conditions when IVF-BT can be adopted to challenge male and female infertility. 2+2
8. Discuss the process of single sperm injection in ICSI. 4
9. Describe the technique for oocytes collection from ovary by “transvaginal ultrasound guided oocyte aspiration” followed in ICSI. 4
10. Discuss the ‘Collagenase- depolymerase’ cascade hypothesis for ovulation. 4
11. Describe the sperm processing required in IUI. 4

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(Continued)

(3)

12. State the major causes of female infertility.

GROUP—C

Answer *any two* of the following questions :

8×2=16

13. Describe in brief different events adopted in ICSI for challenging infertility. 8
14. Discuss different phases of menstrual cycle with their hormonal regulation. 4+4
15. What is endometriosis? Write the major causative factors for endometriosis. What are the major steps adopted to challenge endometriosis? 4+4
16. Discuss the sperm viability test and write its importance. Why is seminal vesicular fructose considered as an important sensor of male fertility assessment? 3+5

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PG/2nd Sem/BML-201/24

BL24/5(121)—75