

M.Sc.

2015

2nd Semester Examination

BIOMEDICAL LABORATORY SCIENCE AND MANAGEMENT

PAPER—BLM-201

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any three of the following.

1. Answer any ten questions of the following : 1×10

- (a) Write the names of any two organelles involved in spermiogenesis.
- (b) What do you mean by LH surge?

(Turn Over)

- (c) What do you mean by teratospermia ?
- (d) Write the name of the most important hormone involved in implantation.
- (e) Write the full forms of IVI and ICI.
- (f) What do you mean by autoimmune infertility ?
- (g) Define family planning.
- (h) What is the basic difference between theca externa and theca interna ?
- (i) Write the name of any one acrosomal enzyme.
- (j) What do you mean by cortical reaction of oocyte ?
- (k) What do you mean by microinjection of sperm in ICSI ?
- (l) Write any one significance of HOS test.
- (m) What do you mean by sperm viability ?
- (n) Write the name of any one oestrogen receptor blocker.
- (o) What do you mean by fallopian cilia syndrome ?

2. (a) Write the composition of sperm diluent.
- (b) What are the precautions will you follow for valid sperm count of the sample.
- (c) Why sperm count is not the only sensor for male fertility assessment ?

(2+2)+3+3

3. (a) Write the different phases of menstrual cycle.
- (b) Discuss the hormonal control of menstrual cycle .
- (c) What is the risk period of menstrual cycle ?

2+6+2

4. (a) Write the major causes of male infertility.
- (b) State the principle of sperm viability test.
- (c) Describe the steps adopted in sperm viability test.

3+2+5

5. (a) Write the hormonal control of pregnancy maintenance.
- (b) State the initiation of parturation from the view point of hormonal regulation .

(c) Write the fundamental principle of immunological process of contraception. 5+3+2

6. (a) What are the conditions when only ICSI is followed for infertility management?

(b) Write the process of sperm microinjection in the oocyte in ICSI method.

(c) Why 100% success rate is not achieved in ICSI?

3+4+3
