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C/16/M.Sc./2nd Seme./BLM-201

M.Sc.

2016

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 : 10×1
 - (a) Write the full forms of IUI and ICSI.
 - (b) Write the name of any one enzyme present along the plasma membrane of sperm.

(Turn Over)

- (c) Write any one limitation when IVF is not possible.
- (d) Why sperms are unable to utilize glucoze ?
- (e) What do you mean by atretic follicles ?
- (f) Write the name of any one enzyme present in sperm acrosome.
- (g) Which one is the risk period of Pregnancy ?
- (h) Write the source of fuctoze in semen.
- (i) What do you mean by anovulatory cycle ?
- (j) What do you mean by teratospermia ?
- (k) Write the mean of any two antioxidative enzyme present in semen.
- (l) Write the name of any one technique used for collection of supergarde quality of sperm.
- (m) What do you mean by superovulation ?
- (n) What do you mean by emergency contraceptive ?
- (o) Write the source of hCG.

2. (a) Write the conditions that should be maintained by the couple for adoption of IUI.

(b) State the sperm preparation person for IUI.

(c) How ovulation is induced in case of IUI.

3+3+4

3. (a) Write the principle of HOS test.

(b) State the procedure of HOS test.

(c) Write the clinical application of HOS test.

(d) Why sperm motility is one of the indicators for male fertility assessment?

2+4+2+2

4. (a) Define ovulation.

(b) Write the hormonal Control of ovulation.

(c) Why superovulation in mandatory of ICSI?

(d) How hormonal pills resist ovulation and results Contraception?

2+3+2+3

5. (a) State role of insulin on spermatogenesis process.
- (b) Why adrenocostical hypertrophy interfere spermatogenesis?
- (c) What do you mean by spermiogenesis?
- (d) What are the preconditions for sperm quality assessment from the view point of semen collection?

2+3+2+3

6. Describe Meustrual Cycle in relation with the controlling Hormones. What is menopause? Mention features of Menopausal Syndrome.
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