M.Sc. 2nd Semester Examination, 2013 BIO-MEDICAL LABORATORY SCIENCE AND MANAGEMENT

PAPER-BMLSM - 201(Unit - 9)

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

MODULE - I

1. Answer any five of the following:

 1×5

- (a) What is LH surge?
- (b) Write the normal value of sperm count.
- (c) What is the importance of sperm motility?
- (d) What is oogensis?

(Turn Over)

- (e) Define spermiogenesis.
- (f) What do you mean by implantation?
- (g) Write the full form of HOS test.
- (h) What do you mean by gamet bank?
- 2. (a) Write the principle of HOS test of sperm.
 - (b) State the procedure of HOS test.
 - (c) Write the role of thyroxine and insulin on spermatogenesis. 2+3+3

Or

- (a) Write the importance of cryopreservation of sperm.
- (b) What do you mean by endometriosis?
- (c) State the role of hormones on pregnancy maintenance. 3+2+3
- 3. (a) Define ovulation.
 - (b) Describe the modern concept of ovulation.

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(Continued)

(c) Write the normal level of fructoze present in semen. 1+4+2

Or

- (a) Describe the different phases of menstrual cycle.
- (b) Write the procedure of acid phosphatase activity assessment of seminal plasma.
- (c) Write the disorder of implantation. 2+3+2

MODULE - II

4. Answer any five of the following:

 1×5

- (a) Define sperm viability.
- (b) Write the full form of IVI and ICI.
- (c) Write the full form of ART and GIFT.
- (d) Define infertility.
- (e) What is acrosome?

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(Turn Over)

- (f) What do you mean by ROS?
- (g) Write the normal leukocyte count in semen.
- (h) What do you mean by immunobend test.
- 5. (a) Write the different causes of female infertility.
 - (b) Describe the procedure of sperm viability test.
 - (c) What are the conditions fullfilled for IUI. 3+3+2

Or

- (a) Write the principle of acrosome testing by gelatine coated slide.
- (b) State the causes of male infertility.
- (c) Write the advantages of IVF over IUI. 2+4+2
- 6. (a) What are the advantages for adoption of ICSI to challenge infertility.

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(Continued)

- (b) Write the hormonal treatment regimen for superovulation in ICSI.
- (c) State the micro-insection of sperm in the Ooplasm. 2+3+2

Or

- (a) Write the sperm preparation for IUI.
- (b) When IUI is not adopted to challenge infertility.
- (c) Write the advantages of ICSI.

3 + 2 + 2