

**M.Sc. ZOOLOGY
FIRST SEMESTER
REPRODUCTIVE BIOLOGY
MSZ-105**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1×10=10

1. The structure which implants in the endometrium is termed as.....
 - a. Chorion
 - b. Morula
 - c. Amnion
 - d. Blastocyst
2. Which of these methods of sterilization is permanent?
 - a. Tubal sterilization
 - b. Vasectomy
 - c. Both a & b
 - d. None of the above
3. Just after the birth of a female, the follicle is surrounded by a single layer of granulosa cell called.....
 - a. Primordial follicle
 - b. Primary follicle
 - c. Theca follicle
 - d. Lutein cell
4. The principal estrogen secreted by the ovaries is:
 - a. Estrol
 - b. Estradiol
 - c. β -estradiol
 - d. Estrone
5. The condition in which a male suffers from lack of sperm production is called.....
 - a. Azoospermia
 - b. Oligospermia
 - c. Zoospermia
 - d. None of the above
6. Gonadotropic hormone is released by.....
 - a. Gonads
 - b. Germ layers
 - c. Neurohypophysis
 - d. Adenohypophysis
7. Which of the following controls the functions of sertoli cells?
 - a. FSH
 - b. ACTH
 - c. Estrogen
 - d. Testosterone
8. Hormones produced in hypothalamus are.....
 - a. Oxytocin and estrogen
 - b. Oxytocin and testosterone
 - c. Oxytocin and Antidiuretic hormone
 - d. Oxytocin and thyroxine
9. Structures derived from the mesonephric ducts include the:
 - a. Seminiferous tubules
 - b. Ureter
 - c. Prostatic urethra
 - d. Ductus deferens

10. The elastic tissue which connects the cauda epididymis to the scrotal sac is:
- a. Caput epididymis
 - b. Scrotal ligament
 - c. Gubernaculum
 - d. Tendinous cord

(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

- | | |
|---|-----------|
| 1. Write short notes on: | 2.5+2.5=5 |
| a) Capacitation of sperm | |
| b) Intrauterine contraceptive device | |
| 2. Discuss about the different IVF techniques. Write the causes of infertility in females. | 6+4=10 |
| 3. Explain briefly the endometrial changes during implantation. Describe briefly the ovarian cycle in human female. | 10 |
| 4. Describe the hypothalamo-hypophyseal-gonadal axis with diagrams. Mention its significance. | 7+3=10 |
| 5. What is the composition of male reproductive system? Explain the ultra structure of Testes. Write the functional significance of the blood testes barrier. | 4+4+2=10 |

== *** ==