

M.Sc. ZOOLOGY
FIRST SEMESTER [SPECIAL REPEAT]
REPRODUCTIVE BIOLOGY
MSZ-105
[USE OMR SHEET FOR OBJECTIVE PART]

SET
A

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

Marks: 10

(Objective)

Choose the correct answer from the following:

1×10=10

1. A glycoprotein layer that acts as a barrier, helps in sperm binding and acrosomal reaction is:
a. Cortical granules
b. Zona pellucida
c. Vitelline membrane
d. Corona radiata
2. Select the correct option.
a. Secondary follicle-secretes progesterone
b. Corpus luteum-secretes progesterone
c. Corpus albicans-secretes estrogen
d. Tertiary follicle-secretes FSH and LH
3. This condition impairs infertility:
a. PCOD
b. Obesity
c. Endometriosis
d. All of these
4. Placenta is formed from the union ofand chorion frondosum.
a. Decidua peritalis
b. Decidua basalis
c. Decidua frontalis
d. None of these
5. The female sterilization method achieved by surgically cutting and cauterizing the fallopian tubes is.....
a. Tubal ligation
b. Tubectomy
c. Vasectomy
d. Ovariectomy
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. What is the function of LH hormone?
a. Stimulates oxidative respiration
b. Stimulates muscle growth
c. Causes color change in skin
d. Stimulates production of testosterone
9. Spermiogenesis refers to the process by which spermatids undergo elaborate cyto-differentiation to produce.....
a. Spermatid
b. Spermatocytes
c. Spermatozoa
d. Spermatogonia

10. In males, testosterone secreted by Leydig cells acts locally to ensure the survival of the and Wolffian ducts ipsilaterally to the remaining testes.
- a. Mesonephric tubules
 - b. Paramesonephric duct
 - c. Medullary cords
 - d. Seminiferous tubules

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(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

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

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| 1. Write short notes on: <i>(both are compulsory)</i> | 2.5+2.5=5 |
| a) Ovarian cycle | |
| b) Primordial Germ Cells | |
| 2. Describe the Genital duct system and accessory sex glands in male.
Write briefly about the erection mechanism. | 4+4+2=10 |
| 3. What is colostrum? What are the important roles of placenta during gestation period? | 2+8=10 |
| 4. Write a note on the development & differentiation of the reproductive ducts with necessary diagrams. | 10 |
| 5. What are causes of infertility in male and female? Write about any one permanent birth control method. | 8+2=10 |

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