B.Sc. ZOOLOGY SIXTH SEMESTER [SPECIAL REPEAT] REPRODUCTIVE BIOLOGY BSZ-603

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Time: 30 mins.

Objective

 $1 \times 20 = 20$

2024/07

SET

Full Marks: 70

Marks: 20

Choose the correct answer from the following: 1. In hypothalamo-hypophysial pituitary axis, the negative feedback hormone inhibin is produced by..... b. Sertoli cell a. Leydig cell d. None of the above c. Spermatogonium 2. In what circumstances a female body produces a lot of androgen? b. PCOD a. Adrenal cancer d. Both a and b c. None 3. Which one from the following is called spermatogenic stem cell? b. Sertoli cell a. Myoid cell d. Epithelial cell c. Leydig cell

4. The acrosome of sperm having a proteolytic enzyme called as.....

a. Peroxidase

b. Topoisomerase

c. Hyaluronidase

d. Aldolase

The main connection between the sperm maturation site and the accessory duct is called as.....

a. Seminiferous tubule

b. Rete testis

c. Epididymis

d. Vas deference

The main difference between the hormone action of protein and steroid hormone is:

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a. Permeability of hormone molecule across the cell membrane

b. Type of hormone receptor

c. Presence or absence of second

d. All of the above

messenger

7. The cell signaling pathway of a virus infected or cancer cell is:

a. Autocrine

b. Paracrine

c. Juxtracrine

d. Endocrine

8. R-spondin-1 is a:

a. Female autosomal gene

b. Female sex chromosome gene

c. Male autosomal gene

d. Male sex chromosome gene

9. Sry gene located on the:

a. Male autosome

b. Short arm of Y chromosome

c. Centromere of Y chromosome

d. X chromosome

the Sertoli cell by the help of: b. Tight zonular junction d. None of the above	The spermatozoa is anchored in the Sertoli a. Hemi junction c. Basement membrane
b. Progesterone oin (hCG) b. Luteinizing hormone (LH)	Which hormone is primarily responsible for early stages of pregnancy? a. Estrogen c. Human chorionic gonadotropin (hCG)
yst attaches to the endometrium of the uterus. Which y involved in this attachment? b. Trophoblast d. Zona pellucida	During implantation, the blastocyst attache layer of the blastocyst is primarily involved a. Inner cell mass c. Blastocoel
of spermatozoa d. Binding of spermatozoa to the zona	 What does capacitation involve? a. Maturation of spermatozoa within the epididymis c. Removal of glycoproteins and cholesterol from the sperm plasma membrane
b. Preventing implantation of a fertilized egg into the uterus prevent d. Blocking the release of gonadotropin	"morning-after pill"?a. Inhibiting ovulationc. Thickening cervical mucus to prevent
b. By preventing the sperm from reaching the egg	sperm from reaching the egg How does tubal ligation prevent pregnancy a. By blocking the release of eggs from the ovaries c. By removing the uterus entirely
common step in the IVF process? b. Retrieval of eggs from the ovaries	Which of the following is NOT a common standard of the following is not standar
ne zona pellucida in the structure of the ovum? ation b. It provides structural support to the ovum	What is the primary function of the zona per a. It contains enzymes for fertilization
d. It produces hormones essential for embryonic development	c. It prevents polyspermy
nsible for preventing contractions of the uterine ntain the placenta's integrity? b. Progesterone	muscles during pregnancy to maintain the p a. Estrogen
2 USTM/COE/R-01	

19. Placenta is formed from the union ofand chorion frondosum.

a. Decidua peritalis

b. Decidua basalis

c. Decidua frontalis

d. None of these

20. The contraceptive option that prevents sperm , motility and also disables implantation is:

a. Copper T

b. Birth control pills

c. Condom

d. All of these