REV-01 BSZ/08/13

B.Sc. ZOOLOGY SIXTH SEMESTER (SPECIAL REPEAT) REPRODUCTIVE BIOLOGY

BSZ-603

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Objective

Time: 30 mins. Marks: 20

Choose the correct answer from the following:

1. In GIFT, gametes are transferred to a woman's:

a. Cervix c. Fallopian tube b. Uterus d. Any one

2. The fertilization of an egg in a nutrient medium and subsequent transfer to a womb is called:

a. GIFT

b. IVF

c. ZIFT

d. ICSI

3. An ultra rapid method of freezing eggs and embryos is called:

a. Rapid freezing

b. Vitrification

c. FRET

d. None

4. Which structure in male reproductive system brings the sperm to maturity and stores the sperm cells?

a. Prostate gland

b. Testes

c. Epidiydymis

d. Seminal vesicles

5. What is the procedure for sterilization in males?

a. Vasectomy

b. Tubectomy

c. Decapitation

d. Circumcision

6. A condition in which functional endometrial tissue is present outside the uterus is called:

a. Endometriosis

b. Pelvic inflammatory disease

c. Cystic fibroisis

d. None of the above

7. The structure which implants in the endometrium is termed as:

a. Embryo

b. Zygote

c. Morula

d. Blastocyst

8. Prolactin causes:

a. Increased hCG excretion during the first month of pregnancy

b. Myometrial contractions and milk letdown

c. Uterine contractions only

d. Milk production by the breast tissue

9. Portion of placenta contributed by the embryo is the:

a. Chorion

b. Yolk sac

c. Amnion

d. Allantois

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SET

Full Marks: 70

 $1 \times 20 = 20$

10	What is the milk produced in the initial f a. Corpus luteum c. Corpus albicans	ew days of lactation called? b. Colostrum d. Lactum
11.	In male, which cells produce anti- Muller a. Germ cells c. Sertoli cells	rian hormone? b. Leydig cells d. Myoid cells
12.	Mullerian duct gives rise to: a. Fallopian tubec. Part of vagina	b. Uterusd. All of the above
13.	The mature spermatozoan are released in process is known as which of the following. Spermiation c. Gametogenesis	
14.	The blood-testis barrier (BTB) is found be a. Leydig cells c. Primordial germ cells	etween adjacent: b. Sertoli cells d. Primary spermatocytes
15.	Wolffian duct do not give rise to: a. Epididymisc. Seminal vesicle	b. Vas deferenced. Fallopian tube
16.	Testosterone, an androgen, is a steroid he a. Sertoli cells c. Seminiferous tubules	ormone produced by: b. Leydig cells d. Epididymis
17.	Gonadotropin-releasing hormone (GnRF a. Anterior pituitary gland c. Testis	l) released from: b. Posterior pituitary gland d. Hypothalamus
18.	The hormone that induces labor and control a. HCG c. Oxytocin	ols labor via a positive feedback mechanism is: b. Progesterone d. Relaxin
19.	Which of the following are functions of pa. Inhibition of estrogen production c. Initiation of secretory phase of the endometrium	
20.	The ovarian hormones act during menstra. LH and FSH c. LH and Progesterone	rual cycle are: b. Estrogen and Progesterone d. Estrogen, Progesterone, LH and FSH

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[Descriptive]

Tin	ne: 2 hr. 30 mins.	Marks: 5
	[Answer question no.1 & any four (4) from the rest]	
1.	Explain the causes of male and female infertility in human beings.	10
2.	What is IVF technique? Describe the various types of modern IVF techniques.	2+8=10
3.	Write short notes on: (any two) a) Hypothalamo-hypophyseal-gonadal axis b) Ovarian hormones c) Mechanism of steroid hormone action	5+5=10
4.	Explain spermatogenesis and its significance.	8+2=10
5.	Explain development of gonad from different sources with suitable diagram.	8+2=10
6.	What is capacitation? How is ovum transported in the fallopian tube? Draw and show the site of fertilization in human.	2+6+2=10
7.	Discuss with diagram the structure and formation of placenta. What are the different hormones secreted by placenta?	7+3=10
8.	Write short notes on: a) Sperm banking b) HCG and its role	5+5=10

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