

PART – B

ZOOLOGY

(Maximum : 30 Scores)

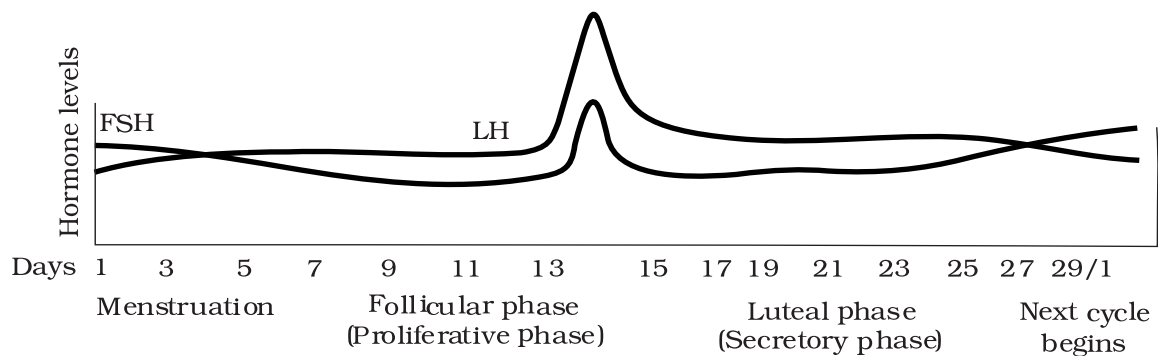
Time : 1 Hour

I. Answer any 3 questions from 1 – 4. Each carries 1 score. (3 × 1 = 3)

1. Choose the odd one from the following and write common features of others
 - (a) Estrogen
 - (b) Androgen
 - (c) Relaxin
 - (d) Progesterone
2. Name the technique of transferring embryos upto 8 blastomeres into the fallopian tube.
 - (a) GIFT
 - (b) ZIFT
 - (c) ICSI
 - (d) IUI
3. Different contraceptive methods are given below. Pick out the odd one.
 - (a) Cu T
 - (b) Saheli
 - (c) Multiload 375
 - (d) Lippes loop
4. Name the finger like projections of the infundibulum of Oviduct

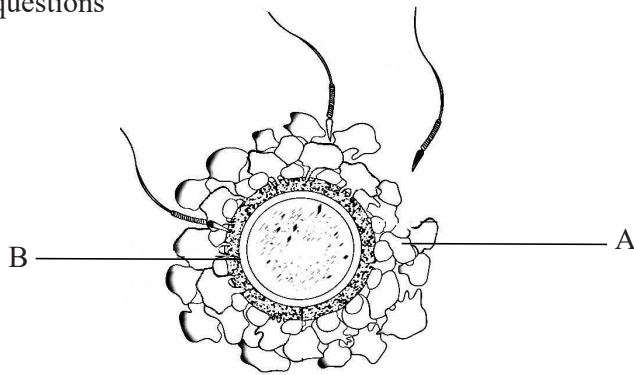
II. Answer any 9 questions from 5 – 14. Each carries 2 scores. (9 × 2 = 18)

5. Observe the graph showing the levels of LH and FSH at various stages of Menstrual cycle.



- a) Name the source of LH and FSH.
 - b) What would be the effect of the peak level of LH during the middle day of the cycle.
 - c) What is the role of estrogen and progesterone in females?
6. After parturition (child birth) doctors give instruction to the mother that "newly born child should be given the first milk "
 - a) Is this statement correct or not ?
 - b) What is the term used for this first milk ?
 - c) Why does the doctors give such instruction ?
 7. "All copulations lead to fertilization and pregnancy". Do you agree with this statement ? Justify your answer.

8. STDs are a major health concern in both industrialised and developing countries across the world.
- What do you mean by the STDs ?
 - Name any two STDs
 - How can these STDs be prevented ?
9. Amniocentesis is banned in Our country.
- What is amniocentesis?
 - Why is it banned in our country?
 - What is the merit of Amniocentesis?
10. Observe the diagram of ovum surrounded by sperms given below and answer the following questions

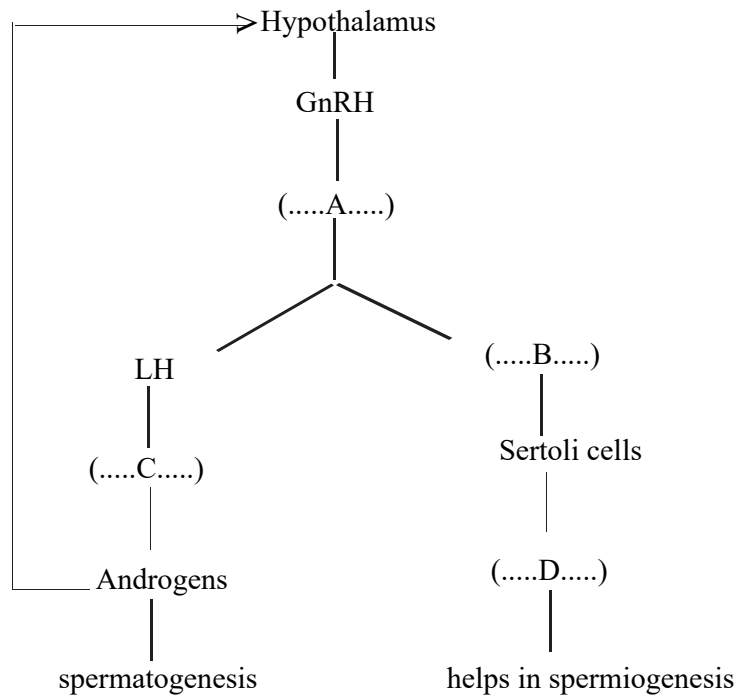


- Identify the A and B ?
 - Mention the significance of the structure B in the fertilization.
11. Match the column A with B

A	B
Luteal Phase	Oogenesis
Acrosome	Progesterone
Ovulation	Blastocyst
Inner cell mass	Sperm
	LH

12. Leydig cells and Sertoli cells are important cells present in the testes. How will you differentiate between them.
13. Placenta is the structural and functional unit formed between the developing foetus and the maternal body.
- How is placenta formed ?
 - List the hormones produced by placenta.
 - Mention other functions of Placenta.

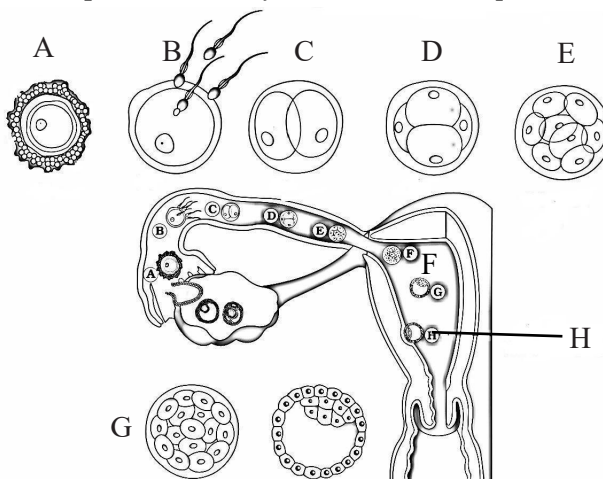
14. Complete the illustration chart given below.



III. Answer any 3 questions from 15 – 18. Each carries 3 scores.

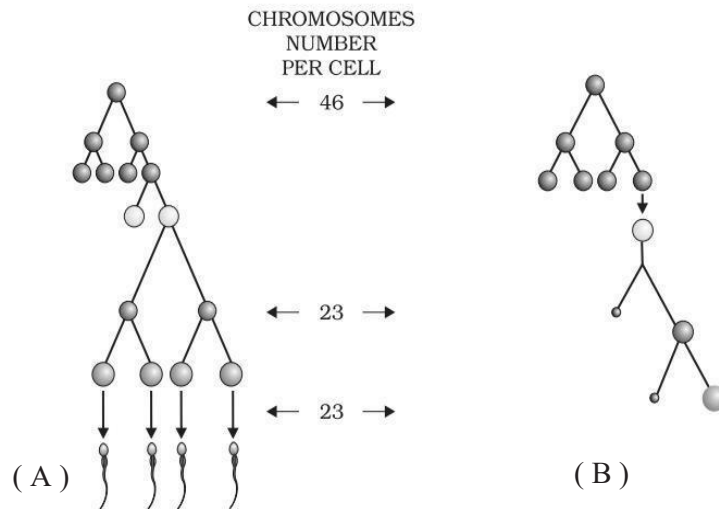
(3 x 3 = 9)

15. Observe the following diagram showing the transport of ovum and different stages of process of development of embryo and answer the questions below.



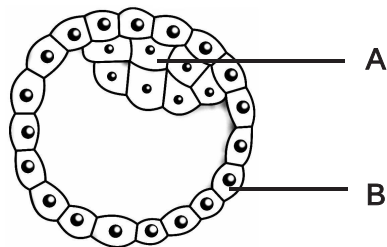
- Identify the process B in the picture and name part of oviduct where it occurs.
- Name structure C and E
- Identify the process H and name the layer of uterus where it occurs

16. The following diagram shows the process of gametogenesis in human being



- Identify the gametogenesis (B)
- Mention any two differences between (A) and (B)

17. Observe the following diagram of Blastocyst and answer the following questions.



- Identify A and B
- what is the fate of A and B

18) Complete the table below by using appropriate terms regarding contraceptive methods

Natural Method	----(a) ----	Surgical methods	----(b) ----
Withdrawl or coitus interruptus	Condoms	----(c) ----	Non- medicated IUDs
----(d) ----	----(e) ----	Tubectomy	----(f) ----