

1 interstitial cells / Leydig cells

2 Natural methods - withdrawal (coitus interruptus)  
/ lactational amenorrhoea / periodic abstinence

3) 3:1

4) a) A - Isthmus

B - Ampulla

C - Infundibulum

b) Ampullary isthmic junction.

5) a) Morula is the embryo with 8 - 16 blastomeres

b) cleavage is the division of cell in the early embryo

c) The process of release of sperm from seminiferous tubule is known as spermiation

d) it is the process by which blastocyst get attached to endometrium of uterus

6) a) contain enzyme that help fertilization of ovum

b) contain mitochondria that facilitate sperm mobility. By producing energy.

7 • They inhibit ovulation and implantation  
• It alter the quantity of cervical mucus

to prevent / retard entry of sperms.

8) a) MTP - Medical Termination of pregnancy

b) RTI - Reproductive tract infections

c) GIFT - Gamete Intra fallopian transfer.

d) MMR - Maternal Mortality rate

9) Surgical intervention blocks gamete transport and thereby prevent conception.

Sterilisation in male is known as vasectomy in this a small part of vas deferens is removed and tied up through a small incision on the scrotum.

sterilisation in female is known as tubectomy in this a small part of fallopian tube is removed / tied up through vagina.

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- They could be grown on simple synthetic medium
  - They complete their life cycle in about 2 weeks
  - A single mating could produce a large no of Progeny flies
  - The male and female flies are easily distinguishable

11) a) Turner's syndrome

b) 45 with XO

12) a) Analysis of traits in a several of generations of a family

- b) i) consanguineous mating  
ii) Male

13) Haemophilia  
Symptoms:-

\* clotting of blood is abnormally delayed so that even a small cut will result in non-stop bleeding in the affected females.

~~\* The disease occurs more commonly in males than~~

14) seed shape: Round x wrinkled

seed colour: Yellow x Green.

flower colour: Violet x white

pod shape: full x constricted

pod colour: Green x yellow.

flower position:- Axial x Terminal

stem height: Tall x Dwarf.

15) a) A) Primary Spermatoocytes

B) Secondary Spermatoocytes

b) Spermatogenesis

\* Begins at Puberty

\* occurs in seminiferous tubule

\* Equal meiosis

\* Polar bodies are not

Oogenesis

\* Begins prior to birth

\* occurs in ovary

\* unequal meiosis

\* Polar bodies are formed

formed

16. Introduction to sex education in school should be encouraged to provide right information to the young so as to - discourage children from believing in myths and having mis conceptions about sex related aspects

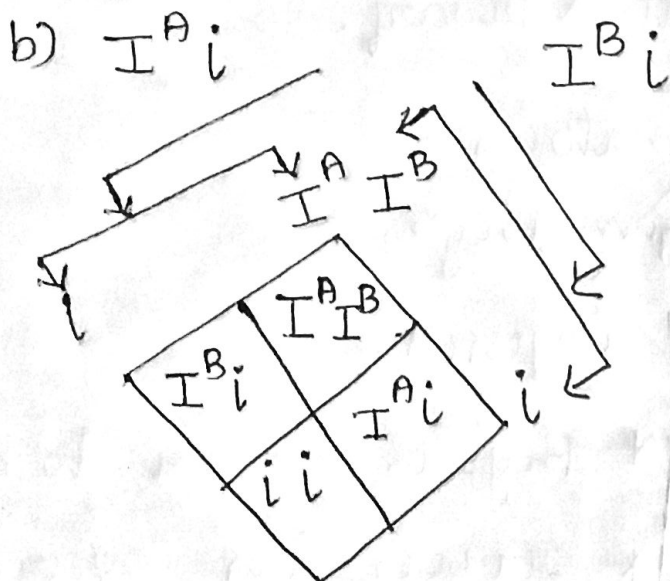
17) a) Insects

b) 2 different types of gamete in terms of sex chromosomes are produced in female

c) Birds (ZZ - ZW mechanism)

18) a) Parent male -  $I^A i$

Parent female -  $I^B i$



c) co dominance / Mendelian inheritance (co dominance applicable only to A and B allele)