

Answer Key (Zoology) Prepared by Keerthana Pradeesh

- 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
- 6) 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
- 7) 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 X0

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

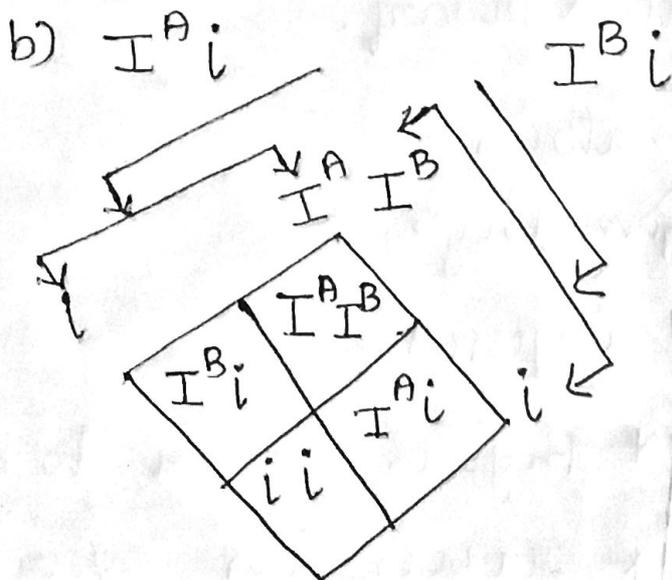
17) a) Insects

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)