

Q.1. In a mammalian sperm , spirally arranged mitochondria around the axial filament are present in the region of the : \*

- (1) Head
- (2) Middle piece
- (3) Principal piece of the tail
- (4) End piece of tail

Q.2. Which of the following hormones is not a secretion product of human placenta : \*

- (1) human chorionic gonadotropin
- (2) prolactin
- (3) estrogen
- (4) progesterone

Q.3. FSH is secreted by: \*

- (1) Adrenal
- (2) Thyroid
- (3) Anterior pituitary
- (4) Posterior pituitary

Q.4. Sperms of mammals depend for movement on: \*

- (1) tail
- (2) middle piece
- (3) head
- (4) tail and middle piece

Q.5. Phase of menstrual cycle that lasts for 7-8 days: \*

- (1) Menstruation
- (2) Luteal phase
- (3) Ovulatory phase
- (4) Follicular phase

Q.6. Embryo at 16-celled stage is called : \*

- (1) Morula
- (2) Blastomere
- (3) Blastula
- (4) Gastrula

Q.7. Egg is liberated from ovary in : \*

- (1) secondary oocyte stage
- (2) primary oocyte stage
- (3) oogonial stage
- (4) mature ovum stage

Q.8. Ovulation occurs under the influence of: \*

- (1) LH
- (2) FSH
- (3) Estrogen
- (4) Progesterone

Q.9. The mammary glands of female starts producing milk: \*

- (1) At the end of menopause
- (2) At the time of puberty
- (3) At the end of pregnancy
- (4) Start of pregnancy

Q.10. At the end of first meiotic division, male germ differentiates into : \*

- (1) secondary spermatocyte
- (2) primary spermatocyte
- (3) spermatogonium
- (4) spermatid

Q.11. Progesterone is called pregnancy hormone as it helps in \*

- (1) lactation
- (2) maintaining pregnancy and bring about labour pain
- (3) help in causing contraction of uterus for delivery
- (4) release of ovum from ovary

Q.12. Withdrawal of which of the following hormones is the immediate cause of menstruation? \*

- (1) Estrogen
- (2) FSH
- (3) FSH-RH
- (4) Progesterone

Q.13. Assertion : The first milk after the birth of baby is called colostrum , it is good to give this milk to infant . Reason: Colostrum is rich in proteins , calories and antibodies . \*

- (1) Assertion and reason both are correct .

(2) Assertion is correct but reason is incorrect.

(3) Assertion is incorrect but reason is correct.

(4) Both assertion and reason are incorrect.

Q.14. Seminal plasma in humans is rich in: \*

(1) glucose and certain enzymes but has no calcium

(2) fructose and calcium but has no enzymes

(3) glucose , calcium and certain enzymes

(4) fructose, calcium and certain enzymes

Q.15. How many autosomes does a human primary spermatocyte have \*

(1) 22

(2) 44

(3) 54

(4) 33