

SECTION A

Multiple Choice Questions

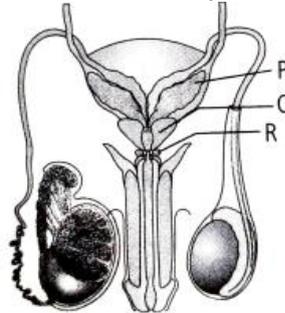
[1X 10=10]

- Seminal plasma, the fluid part of semen, is contributed by

(i) seminal vesicle	(ii) prostate	(iii) urethra	(iv) bulbourethral gland
(a) (i) and (ii)	(b) (i), (ii) and (iv)	(c) (ii), (iii) and (iv)	(d) (i) and (iv).
- Which part of mammalian ovary secretes progesterone ?

(a) Graafian follicle	(b) Corpus luteum	(c) Corpus albicans	(d) Tertiary follicle
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- Identify the parts of male reproductive system from given characteristics.

(i) Produces milky secretion with pH 6.5 which nourishes spermatozoa to swim.
(ii) Present on either side of membranous urethra and secrete mucus that lubricates end of penis.
(iii) Their ducts join vasa deferentia to form ejaculatory ducts.



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|-----|-----|------|-------|
| | (i) | (ii) | (iii) |
| (a) | Q | P | R |
| (b) | P | R | Q |
| (c) | Q | R | P |
| (d) | P | Q | R |

- Read the following statements and select correct option.
Statement A : The glandular tissue of each breast is divided into 15-20 mammary lobes.
Statement B :The alveoli open into mammary lobes.

(a) Both statement A and B are true.
(b) Both statement A and B are false.
(c) Statement A is true but statement B is false.
(d) Statement A is false but statement B is true.
- Which among the following organs help scrotum to remain connected with the abdomen or pelvic cavity?

(a) Spermatic cord	(b) Mesorchium	(c) Inguinal canal	(d) Gubernaculum
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- Assertion** : Placenta secretes estrogen.
Reason : Estrogen maintains the corpus luteum to secrete progesterone.

(a) Both assertion and reason are true, and reason is the correct explanation of assertion.
(b) Both assertion and reason are true, but reason is not the correct explanation of assertion.
(c) Assertion is true but reason is false.



(d) Assertion is false but reason is true.

7. The correct sequence of hormones secreted from the beginning of menstrual cycle is
- (1) FSH, estrogen, progesterone (2) Estrogen, FSH, progesterone
(3) FSH, progesterone (4) Estrogen, progesterone, FSH
8. Layers of ovum from outside to inside are
- (1) Corona radiata, zona pellucida, vitelline membrane
(2) Zona pellucida, corona radiata, vitelline membrane
(3) Vitelline membrane, zona pellucida, corona radiata
(4) Zona pellucida, vitelline membrane, corona radiata
9. Scrotal sacs of man are connected with the abdominal cavity by
- (1) Inguinal canal (2) Haversian canal
(3) Spermatic canal (4) Rete testis
10. Common duct formed by the union of vas deferens and duct of seminal vesicle is
- (1) Urethra (2) Tunica vasculosa (3) Ejaculatory (4) Spermatic duct

SECTION – B

[2X3= 6]

11. Define spermiogenesis & spermiation.
12. Draw well labelled diagram of Graafian follicle.
13. Define parturition. Which hormones are involved in this process ?

SECTION-C

[3X 3= 9]

14. Name the embryonic stage that gets implanted in human female. Draw & explain its structure with the functions.
15. Fertilization is physio-chemical process. Explain in details.
16. (i) When & how does placenta develop in humans & how is it connected to embryo ?
(ii) Placenta acts as endocrine gland . Explain.

SECTION-D

[5X1= 5]

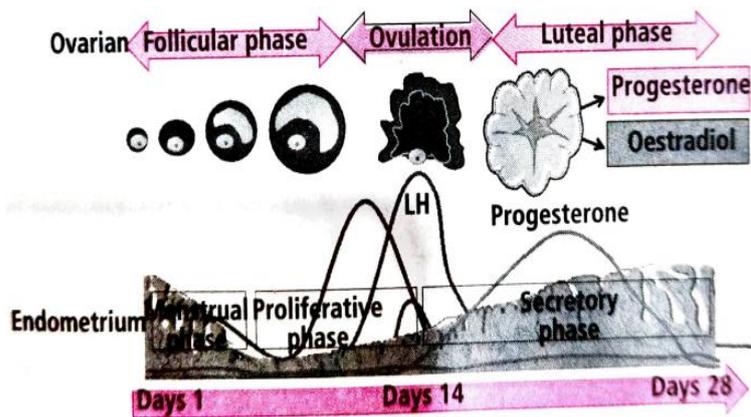
17. Differentiate bw Spermatogenesis & Oogenesis. { Represent only in tabular form}

CASE STUDY

[1X5= 5]

18. Read the following and answer any four questions from 9(i) to 9(v) given below :





- (i) During menstrual cycle, levels of LH and estrogen are highest around
 (a) 28th day (b) 21st day (c) 7th day (d) 14th day.
- (ii) Hormones of menstrual cycle are produced by
 (a) ovaries only (b) uterus only
 (c) anterior pituitary only (d) both (a) and (c).
- (iii) Which of the following statements is correct regarding menstrual cycle?
 (a) Both LH and FSH attain a peak level in secretory phase.
 (b) Ovulation occurs in luteal phase.
 (c) Endometrium rebuilds in proliferative phase.
 (d) Proliferative phase is characterised by the increased production of progesterone.
- (iv) **Assertion** : Progesterone and estrogen production is reduced during menstrual phase.
Reason : The withdrawal of LH causes degeneration of the corpus luteum.
 (a) Both assertion and reason are true, and reason is the correct explanation of assertion.
 (b) Both assertion and reason are true, but reason is not the correct explanation of assertion.
 (c) Assertion is true but reason is false.
 (d) Assertion is false but reason is true.
- (v) Differentiate bw Menarche & Menopause.

