

Human Reproduction

NEET previous year questions · Biology

11 questions from the official papers: NEET 2026 (3), Re-NEET 2026 (5), NEET 2020 (3). Each is followed by its answer and a worked solution written by BrainIt. Generated on 23 October 2026.



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1. NEET 2026 · Q163

Spermatogonia undergo a series of cell divisions to produce sperms. Select the correct statements from the following and choose the correct answer from the options given below.

Statement I: Spermatogonia always undergo meiotic cell division.

Statement II: Primary spermatocytes divide mitotically to produce secondary spermatocytes.

Statement III: Secondary spermatocytes, through their second meiotic division, produce haploid spermatids.

Statement IV: Spermatids produce spermatozoa through mitosis.

Statement V: Spermatids transform into spermatozoa by spermiogenesis.

- (1) I and V only (2) III and V only
(3) I, III and V only (4) II, III and IV only

Answer (2)

Sol. Secondary spermatocytes complete the second meiotic division to give haploid spermatids (III correct), and spermatids differentiate into spermatozoa by spermiogenesis (V correct). Statement I is wrong because spermatogonia divide mitotically, Statement II is wrong because primary spermatocytes undergo meiosis I, and Statement IV is wrong because spermatids transform (not divide by mitosis) into sperm. So only Statements III and V are correct, option (2).

2. NEET 2026 · Q167

Match List-I with List-II related to embryonic development at various months of pregnancy:

List I	List II
P) The foetus movement starts and hair appears on the head	I) 24 weeks of pregnancy
Q) The foetus develops limbs and digits	II) 20 weeks of pregnancy
R) The foetus develops external genital organs	III) 8 weeks of pregnancy
S) The foetus body is covered with fine hair; eyelids separate and eyelashes are formed	IV) 12 weeks of pregnancy

Choose the correct answer from the options given below:

- (1) P-IV, Q-II, R-III, S-I (2) P-II, Q-III, R-IV, S-I
(3) P-III, Q-II, R-IV, S-I (4) P-II, Q-IV, R-III, S-I

Answer (2)

Sol. Limbs and digits form by the end of the second month (about 8 weeks), so Q-III. Most major organ systems and the external genital organs are formed by the end of the first trimester (about 12 weeks), so R-IV. The first foetal movements and hair on the head appear around the fifth month (about 20 weeks), so P-II. By about 24 weeks the body is covered with fine hair with separated eyelids and eyelashes, so S-I. Hence P-II, Q-III, R-IV, S-I.

3. NEET 2026 · Q170

Arrange the following cell layers/structures around the female gamete, from outer to inner side.

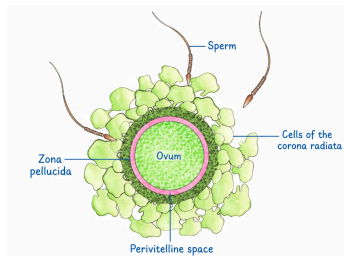
- I. A. Zona pellucida
- II. B. Perivitelline space
- III. C. Corona radiata
- IV. D. Plasma membrane of ovum

Choose the correct answer from the options given below:

- (1) D, B, A, C
- (2) C, A, D, B
- (3) C, A, B, D
- (4) A, C, B, D

Answer (3)

Sol. Moving inward from the outside of the secondary oocyte, the layers occur in the order corona radiata, then zona pellucida, then the perivitelline space, and finally the plasma membrane of the ovum. This corresponds to the sequence C, A, B, D. Hence option (3).

**4. Re-NEET 2026 · Q140**

Sperm motility is due to _____.

- (1) flagellar movement
- (2) ciliary movement
- (3) amoeboid movement
- (4) muscular movement

Answer (1)

Sol. The sperm tail is a single long FLAGELLUM whose whip-like beating propels the cell forward. The energy comes from the mitochondria spiralled around the middle piece, which is why that region is packed with them. NCERT Class 12, Human Reproduction.

5. Re-NEET 2026 · Q143

Which of the following structures is not a part of the male reproductive system?

- (1) Rete testis
- (2) Epididymis
- (3) Vasa efferentia
- (4) Infundibulum

Answer (4)

Sol. The infundibulum is the funnel-shaped opening of the FALLOPIAN TUBE, fringed with fimbriae that collect the ovum after ovulation - a female structure. The male duct system runs seminiferous tubules → rete testis → vasa efferentia → epididymis → vas deferens, and the other three options are all stages along it. NCERT Class 12, Human Reproduction.

6. Re-NEET 2026 · Q145

Given below are two statements:

Statement I: Ovulation is caused by LH surge leading to rupture of Graafian follicles.

Statement II: Graafian follicle remaining after ovulation transform into corpus luteum and secretes large amount of estrogen.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Both Statement I and Statement II are correct
- (2) Both Statement I and Statement II are incorrect
- (3) Statement I is correct but Statement II is incorrect
- (4) Statement I is incorrect but Statement II is correct

Answer (3)

Sol. A mid-cycle surge of luteinising hormone ruptures the mature Graafian follicle and releases the ovum. The remaining follicle forms the corpus luteum, whose main secretion is progesterone; it helps maintain the endometrium for implantation. Statement I is true, while statement II wrongly names oestrogen as the principal secretion.

7. Re-NEET 2026 · Q166

Which of the following hormone is not secreted by human placenta?

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

Answer (4)

Sol. The placenta functions as a temporary endocrine gland, producing human chorionic gonadotropin (hCG), human placental lactogen, oestrogens, progesterones and later relaxin. Luteinising hormone is not among them - LH is a gonadotropin secreted by the ANTERIOR PITUITARY. The placental hormone that mimics its role early in pregnancy is hCG, which sustains the corpus luteum. NCERT Class 12, Human Reproduction.

8. Re-NEET 2026 · Q173

The covering of ovum at ovulation is _____.

- (1) endometrium
- (2) zona radiata
- (3) zona pellucida
- (4) chorion

Answer (3)

Sol. The zona pellucida is the transparent glycoprotein layer laid down around the oocyte during its growth, and it is the covering carried by the ovum at ovulation. It plays an active role at fertilisation, binding sperm and then hardening to block polyspermy once one sperm has entered. NCERT Class 12, Human Reproduction.

9. NEET 2020 · Q31

Which of the following hormone levels will cause release of ovum (ovulation) from the graffian follicle?

- (1) High concentration of Progesterone
- (2) Low concentration of LH
- (3) Low concentration of FSH
- (4) High concentration of Estrogen

Answer (4)

Sol. High concentrations of estrogen trigger the release of luteinizing hormone (LH), which in turn causes ovulation. Chapter: Human Reproduction.

10. NEET 2020 · Q40

Meiotic division of the secondary oocyte is completed

- (1) At the time of copulation
- (2) After zygote formation
- (3) At the time of fusion of a sperm with an ovum
- (4) Prior to ovulation

Answer (3)

Sol. Meiotic division of the secondary oocyte is completed at the time of fusion of a sperm with an ovum, forming the second polar body. Chapter: Human Reproduction.

11. NEET 2020 · Q90

Match the following columns and select the correct option.

List I	List II
P) Placenta	I) Androgens
Q) Zona pellucida	II) Human chorionic gonadotropin (hCG)
R) Bulbo-urethral glands	III) Layer of the ovum
S) Leydig cells	IV) Lubrication of the penis

- (1) P-I, Q-IV, R-II, S-III (2) P-III, Q-II, R-IV, S-I
- (3) P-II, Q-III, R-IV, S-I (4) P-IV, Q-III, R-I, S-II

Answer (3)

Sol. The placenta secretes hCG; zona pellucida is the ovum's glycoprotein layer; bulbo-urethral secretions lubricate the penis; and Leydig cells secrete androgens. Thus P-II, Q-III, R-IV, S-I. Chapter: Human Reproduction.

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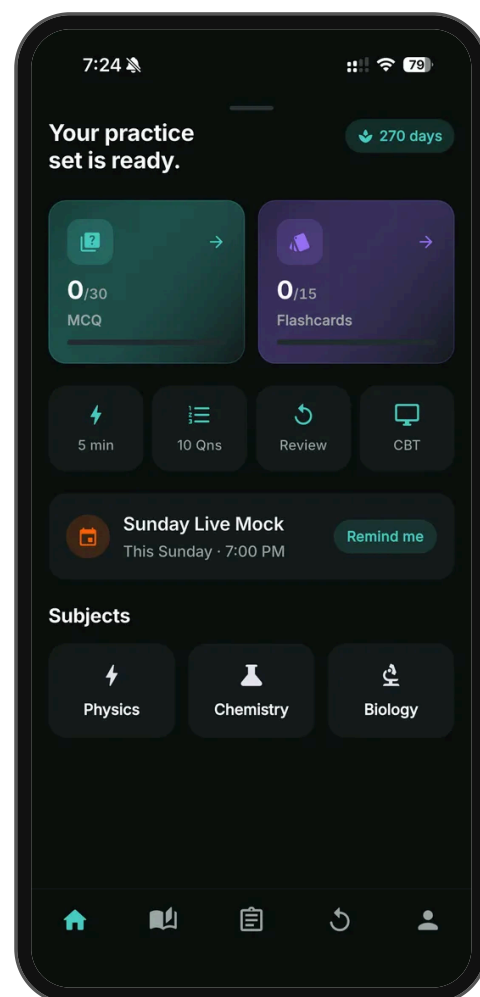
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