

QUICK DRILL · CBSE CLASS 12

Human Reproduction

Biology · Chapter 2 · 15 MCQs · 20 minutes · PYQ-tagged with time budgets

DATE	TOTAL MARKS	DURATION	MARKING	TARGET
	15	20 min	+1 / 0	≥ 12/15

OBJECTIVES

Reinforce the four core topics of Human Reproduction via 15 PYQ-derived MCQs. Identify weak sub-topics via concept-node IDs (see answer key). Build per-question time budget habit.

INSTRUCTIONS

Attempt all 15. Time budget shown per Q (use it as pacing guide). Mark answers (A/B/C/D) in the margin. Answer key + explanations on the last page. **Don't peek — score yourself honestly.**

SECTION · QUICK DRILL

Q 1-15 · 20 MIN

Q1. The site of spermatogenesis in the testis is the:

(A) Rete testis

(C) Epididymis

PYQ 2019 · Delhi · 1m · 30s

(B) Seminiferous tubules

(D) Vas deferens

Q2. Which cell of the testis is stimulated by LH?

(A) Sertoli cell

(C) Spermatogonium

PYQ 2020 · All India · 1m · 30s

(B) Leydig cell

(D) Spermatid

Q3. Fertilisation in human females occurs in the:

(A) Uterus

(C) Ampulla of fallopian tube

PYQ 2018 · Delhi · 1m · 30s

(B) Ovary

(D) Cervix

Q4. Which hormone surge triggers ovulation?

(A) FSH

(C) LH

PYQ 2021 · All India · 1m · 30s

(B) Estrogen

(D) Progesterone

Q5. Net yield of one spermatogonium at the end of spermatogenesis is:

(A) 1 sperm

(C) 3 sperm

PYQ 2022 · Delhi · 1m · 30s

(B) 2 sperm

(D) 4 sperm

Q6. In oogenesis, the secondary oocyte is arrested at which stage of meiosis until fertilisation?

(A) Prophase-I

(C) Prophase-II

PYQ 2023 · Delhi · 1m · 30s

(B) Metaphase-I

(D) Metaphase-II

Q7. The duct that transports sperm from the epididymis to the ejaculatory duct is the:

(A) Vasa efferentia

(C) Urethra

PYQ 2019 · All India · 1m · 30s

(B) Vas deferens

(D) Rete testis

Q8. Which layer of the uterus undergoes cyclic changes during the menstrual cycle?

(A) Perimetrium

(C) Endometrium

PYQ 2020 · Delhi · 1m · 30s

(B) Myometrium

(D) Mesometrium

Q9. The corpus luteum primarily secretes:

(A) Estrogen

(C) Progesterone

PYQ 2022 · All India · 1m · 30s

(B) FSH

(D) LH

Q10. Day 1 of the menstrual cycle is conventionally defined as:

(A) Day of ovulation

(C) Last day of bleeding

PYQ 2021 · Delhi · 1m · 30s

(B) First day of bleeding

(D) Day of LH surge

Q11. Which hormone is detected by home pregnancy tests?

(A) Estrogen

(C) Human chorionic gonadotropin (hCG)

PYQ 2024 · All India · 1m · 30s

(B) Progesterone

(D) Prolactin

Q12. Implantation of the embryo occurs at which stage?

(A) Zygote

(C) Blastocyst

PYQ 2023 · All India · 1m · 30s

(B) Morula

(D) Gastrula

Q13. Which hormone is responsible for the positive feedback loop during parturition?

(A) Prolactin

(C) Relaxin

PYQ 2020 · Delhi · 1m · 30s

(B) Oxytocin

(D) Estrogen

Q14. Colostrum is rich in which immunoglobulin?

(A) IgG

(C) IgA

PYQ 2024 · Delhi · 1m · 30s

(B) IgM

(D) IgE

Q15. Which gland's secretion contributes the largest fraction of semen volume?

(A) Prostate

(C) Seminal vesicles

PYQ 2019 · All India · 1m · 30s

(B) Bulbourethral

(D) Cowper's

ANSWER KEY & EXPLANATIONS

Q 1-15 · MARK YOUR SCORE

Q1. Answer: B

Seminiferous tubules are the site of sperm production. The other structures store or transport sperm.

Q2. Answer: B

LH acts on Leydig (interstitial) cells to stimulate testosterone secretion. FSH acts on Sertoli cells.

Q3. Answer: C

The widest region of the fallopian tube — the ampulla — is the site of fertilisation.

Q4. Answer: C

A sharp LH surge on Day 14 ruptures the Graafian follicle, releasing the secondary oocyte.

Q5. Answer: D

One spermatogonium → 4 spermatozoa (via meiosis I + II + spermiogenesis).

Q6. Answer: D

The secondary oocyte halts at Metaphase-II and only completes meiosis-II when a sperm enters.

Q7. Answer: B

Rete testis → vasa efferentia → epididymis → VAS DEFERENS → ejaculatory duct → urethra.

Q8. Answer: C

The endometrium (inner glandular layer) proliferates, becomes secretory, and is shed cyclically.

Q9. Answer: C

The corpus luteum (formed from the ruptured Graafian follicle) is the dominant source of progesterone during the luteal phase.

Q10. Answer: B

Day 1 = first day of menstrual bleeding. Ovulation is around Day 14.

Q11. Answer: C

hCG is secreted by the trophoblast / placenta from ~day 6-8 of fertilisation and is detected in maternal urine.

Q12. Answer: C

By Day 5, the embryo becomes a blastocyst (with inner cell mass + trophoblast), which implants on Day 6-7.

Q13. Answer: B

Oxytocin causes uterine contractions, which trigger more oxytocin release — a positive feedback loop.

Q14. Answer: C

Colostrum is rich in IgA antibodies, providing passive immunity to the newborn.

Q15. Answer: C

Seminal vesicles contribute ~60% of semen volume (fructose-rich fluid for sperm energy).