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Class 12th

Sub. Biology

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Based on NCERT patterns.

Questions practice for PA 1

1. Match Column I with Column II.

Column I	Column II
Cleavage	1. Outer layer of the blastocyst that attaches to the endometrium during implantation.
Implantation	2. Mitotic divisions of the zygote in quick succession.
Inner cell mass	3. Embedding of the blastocyst in the endometrium of uterus.

Trophoblast	4. Release of secondary oocyte from the ovary.
	5. Group of cells attached to one end of trophoblast that differentiate into embryo proper.

2.

Column I	Column II
A. Acrosome	1. Motility of sperm towards the egg.
B. Head	2. Powerhouse of the sperm; contains a number of mitochondria.
C. Tail	3. Contains the genetic material.

D. Middle piece	4. Contains enzymes to dissolve egg envelopes
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3. The finger-like projections, called fimbriae, help in the collection of ovum into the fallopian tube following ovulation. [True/False]
4. Endometrium undergoes cyclical changes and help in uterine movements. [True/False]
5. Oxytocin, necessary for parturition, is secreted by the fully-developed foetus and the placenta. [True/False]
6. The finger-like projections that appear on the trophoblast following implantation, are called chorionic villi. [True/False]
7. Relaxin is the hormone secreted by the placenta. [True/False]

Mark the odd one in each of the following groups.

8. Fimbriae, Labia minora, Infundibulum, Isthmus.
9. Rete testis, Vasa efferentia, Epididymis, Ampulla
10. Bulbourethral gland, Prostate. Seminal vesicle, Seminiferous tubule.
11. Oogonia, Spermatogonia, Zygote, Ootid
12. Luteinizing hormone, Progesterone, Chorionic gonadotropin, Estrogen
13. Name the cells that nourish the germ cells in the testes. Where are these cells located in the testes?
14. How is a primary spermatocyte different from a secondary spermatocyte?

15. Where is acrosome present in humans? Write its function.