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PRACTICE QUESTION

Correct sequence of cell stage in spermatogenesis

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- spermatocytes spermatids spermatognia – spermatozoa
- spermatogonia spermatids b. sprmatocytes – spermatozoa
- spermatogonia sprmatocytes spermatids – spermatozoa
- permatocytes -spermatogona- spermatids d. -spermatozoa

spermatogonia sprmatocytes spermatids - spermatozoa

- In spermatogenesis the phase of maturation involves
 - The formation of oogonia from the spermatocytes through meiosis
 - The formation of spermatids from primary b. spermatocytes through meiosis
 - The growth of spematogonia into primary C. spermatocytes
 - The formation of spermatogonia from gonocytes through mitosis

Ans:b. the formation of spermatids from primary spermatocytes through meiosis

- Which part of sperm provides energy for its 3. movement?
 - Head a.
 - Tail b.
 - C. Middle piece
 - d. Acrosome

Ans: c. Middle piece

- What happens during spermatogenesis?
 - mitosis
 - meiosis h
 - mitosis and meiosis C.
 - none of the above

Ans: c.mitosis and meiosis

- а Number of spermatozoa single primary ultimately spermatocyte produces spermatogenesis is
 - a. 8
 - 6 b.
 - 4 C.
 - d. 2

Ans : c. 4

- How many secondary spermatocytes are required to form 400 spermatozoa?
 - 100 a.
 - 200 b.
 - 400 C.
 - 800 d.

Ans : b. 200

- Spermatogenesis is induced by
 - MSH a.
 - **TSH** b.
 - **FSH** C.
 - **ACTH** d.
- Ans : c. FSH

- The lytic enzyme released by sperm is 8.
 - acrosome
 - b. ligase
 - hyaluronidase C.
 - None of these d.

Ans: c. hyaluronidase

- Following fertilization the blastocyst secrets a hormone called?
 - Human Chorionic Gonadotropin
 - b. Oxvtocin
 - **FSH** C.
 - LH d.

Ans: a. Human Chorionic Gonadotropin

- In humans, the placenta is
 - Haemochorial a.
 - Endothelial b.
 - Epitheliochorial C.
 - Syndesmochorial d.

Ans: a. Haemochorial

- 11. Implanation of blastocyst occurs on
 - 4th day a.
 - 5 th day b.
 - 6th day 7th day C.
 - d.

Ans: d. 7 th day

- The central fluid filled cavity of the blastula is known as
 - archenteron
 - b. blastocoel
 - blastocyst C.
 - morula

Ans: b. blastocoels

- Genetic identity of a human male is determined by
 - a. Autosomes
 - Nucleolus b.
 - Cell organelles C.
 - Sex chromosomes d.

Ans : d. Sex chromosomes

- 14. Fertilizin is a chemical substance produced from
 - a. Mature eggs
 - acrosome b.
 - C. Polar bodies
 - d. Middle piece of sperm

Ans: a. Mature eggs

- 15. Fertilization of ova in human take place in
 - ovary a.
 - Vagina b.
 - Fallopian tube C.
 - d. Uterus

Ans: c. Fallopian tube

- 16. The morphogenetic movement change the hollow spherical blastula into a
 - Embryonic disc a.
 - Gastrula b.
 - Morula C.
 - Neurula d.

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Ans: b. Gastrula

- 17. Undifferentiated spermatogenic cells are called
 - a. spermatogonia.
 - b. primary spermatocytes.
 - c. secondary spermatocytes.
 - d. spermatids

Ans : d. spermatogonia.

- 18. Which of the following cells are diploid?
 - a. secondary oocytes
 - b. secondary spermatocytes
 - c. primary spermatocytes
 - d. Spermatids
- 19. During spermatogenesis, which of the following undergoes a meiotic division to produce haploid cells?
 - a. Spermatids
 - b. secondary spermatocytes
 - c. primary spermatocytes
 - d. spermatogonia

Ans : c. primary spermatocytes

- The process of crossing-over, or recombination, of genes occurs during
 - a. meiosis I
 - b. meiosis II
 - c. spermiogenesis
 - d. spermiation

Ans : a. meiosis I

- 21. Maintenance of the male secondary sex characteristics is the direct responsibility of
 - a. estrogen.
 - b. testosterone.
 - c. FSH.
 - d. progesterone.

Ans: b. testosterone.

- 22. The first step in oogenesis is
 - a. secondary oocyte divides to form a polar body and an egg cell.
 - b. primary oocyte divides to form a secondary oocyte and a first polar body.
 - c. follicle is converted to a corpus luteum.
 - d. corpus luteum is converted to a corpus albicans.

Ans: b. primary oocyte divides to form a secondary oocyte and a first polar body

- The cell commonly called the egg, or ovum, is more correctly called
 - a. primary oocyte.
 - secondary oocyte.
 - c. oogonium.
 - d. zygote.

Ans : b. secondary oocyte.

- 24. The first meiotic division in oogenesis occurs
 - a. before ovulation.
 - b. only if the egg is fertilized.
 - c. after ovulation.
 - d. monthly after puberty in response to FSH and LH.

Ans: a. before ovulation.

- 25. If fertilization does not occur, the corpus luteum
 - a. is expelled into the pelvic cavity.

- b. begins to secrete low levels of FSH.
- c. degenerates into the corpus albicans.
- d. continues to secrete progesterone until the next ovulation.

Ans : c. degenerates into the corpus albicans.

- 26. Following ovulation, a human egg cell can survive approximately
 - a. 1 hour
 - b. 12 hours
 - c. 24 hours
 - d. 72 hours

Ans: c. 24 hours

- 27. About the time of ovulation, the anterior pituitary gland releases a relatively large quantity of
 - a. estrogen
 - b. Progesterone
 - c. LH
 - d. Androgen

Ans: c. LH

- 28. The hormone mainly responsible for the development and maintenance of female secondary sexual characteristics is
 - a. Estrogen
 - b. Progesterone
 - c. Androgen E
 - d. luteinizing hormone

Ans: a. estrogen

- 29. Fertilization takes place at
 - a. Interstitial
 - b. Infundbulum
 - c. Ampulla
 - d. None of these

Ans : c. Ampulla

- 30. Which one is produced by mesoderm?
 - a. Spinal cord and notochord
 - b. Heart and notochord
 - c. Brain and notochord
 - d. Heart and brain

Ans : b. Heart and notochord

- 31. The mesoderm gives rise to all the following structures in the fully developed fetus, EXCEPT
 - a. Nervous system
 - b. Muscular system
 - c. Gonads
 - d. Circulatory system

Ans: c. gonads

- 32. Which test is found positive during fertlity period of menstrual cycle?
 - a. Pyroglobulin test
 - b. Spinnbarkeit test
 - c. Shick test
 - d. Ballottement test
- Ans: b. Spinnbarkeit test, in which cervical mucus is slippery and can be drawn into a thread when stretched between two fingers.
- 33. After a sperm has entered on ovum, entry of other sperm is prevented by
 - a. Condensation of the yolk

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- b. Development of viteline membrane
- C. Formation of pigment coat
- d. Development of fertilization membrane

Ans : d. Development of fertilization membrane

- 34. Gonads develop from embryonic
 - Ectoderm
 - Both mesoderm and endoderm b.
 - Endoderm C.
 - d. Mesoderm

Ans : d. Mesoderm

- 35. In development, nervous system is
 - Endomesodermal
 - b. Ectodermal
 - Endodermal C.
 - Ectomesodermal d.

Ans : b. Ectodermal

- 36. Which of the following is the location where fertilization occurs?
 - a. ovaries
 - b. vagina
 - c. uterus
 - d. fallopian tubes

Ans : d. fallopian tubes

- 37. Where does spermatogenesis occur?
 - a. seminiferous tubules
 - b. corpus spongiosoma
 - c. prostate gland
 - d. scrotum

Ans: a. seminiferous tubules

- 38. Which of the following develops into: bone, connective tissue, blood, and the spleen?
 - a. notochord
 - b. endoderm
 - c. mesoderm
 - d. ectoderm

Ans : c. mesoderm

- 39. Which of the following is not a germ layer during the 3rd week of development?
 - a. mesoderm
 - b. ectoderm
 - c. endoderm
 - d. exoderm

Ans : d. exoderm

- 40. Ovulation occurs during which of the following phases?
 - a. menstrual
 - b. secretory
 - c. proliferative
 - d. follicle

Ans : c. proliferative

- 41. Following fertilization the blastocyst secrets a hormone called?
 - a. human chorionic gonadotropin
 - b. oxytocin
 - c. FSH
 - d. LH

Ans: a. human chorionic gonadotropin

- 42. Progesterone is secreted from a female's to help the implanted embryo and continue the pregnancy.
 - a. corpus luteum
 - b. mesoderm
 - c. endoderm
 - d. thyroid

Ans: a. corpus luteum