BIOLOGY CLASS 12 BATCH

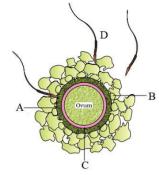
Human Reproduction

DPP-08

- 1. The deposition of semen in vagina is called
 - (1) Ejaculation
 - (2) Insemination
 - (3) Erection
 - (4) Capacitation
- 2. Cells formed after meiosis II gets completed is/are
 - (1) Ovum
 - (2) Second polar body
 - (3) Ootid
 - (4) All of the above
- **3.** State true (T) or false (F)
 - The ovum released by the ovary is transported to the ampullary region where fertilisation takes place
 - ii. Fertilisation can only occur if the ovum and sperms are transported simultaneously to the infundibulum region
 - iii. All copulations lead to fertilisation and pregnancy
 - iv. The process of fusion of a sperm with an ovum is called fertilisation
 - (1) i-T, ii-T, iii-F, iv-F
 - (2) i F, ii T, iii F, iv T
 - (3) i T, ii T, iii T, iv F
 - (4) i-T, ii-F, iii-F, iv-T
- **4.** Capacitation occurs in
 - (1) Female reproductive tract
 - (2) Male reproductive tract
 - (3) Both (1) & (2)
 - (4) Ovum
- 5. Which of the following does not occur during capacitation?
 - (1) Ca^{2+} entry in sperms
 - (2) Removal of excess cholesterol from sperm membrane
 - (3) Rapid whiplash movements of sperms
 - (4) Release of acrosomal enzymes

- **6.** Meiosis II is completed in
 - (1) Oviduct
 - (2) Uterus
 - (3) Ovary
 - (4) Graafian follicle
- 7. Find the correct statement
 - (1) Acrosomal enzymes help to digest egg membranes
 - (2) Many sperms can enter the cytoplasm of the female gamete
 - (3) Ootid formation takes place before entry of sperm
 - (4) Both (1) & (2)
- **8.** Find out the correct statement with respect to fertilisation
 - Sperm comes in contact with the zona pellucida layer of the ovum and induces changes in the membrane that block the entry of additional sperms
 - (2) The secretions of the nucleus help the sperm enter into the cytoplasm of the ovum
 - (3) The second meiotic division is equal
 - (4) The haploid nucleus of the sperm and that of the ovum fuse together to form a haploid zygote
- During fertilisation, cortical reaction occurs. It is also called
 - (1) Fast block to polyspermy
 - (2) Slow block to polyspermy
 - (3) Depolarization
 - (4) Acrosomal reaction
- **10.** Identify the odd one out with respect to female gamete
 - (1) Zona pellucida
 - (2) Sperm lysins
 - (3) Corona radiata
 - (4) Released from graafian follicle

11. Identify A, B, C, D correctly



- (1) A Zona pellucida
 - \mathbf{B} Sperm
 - C Perivitelline space
 - **D** Corona radiata
- (2) A Zona pellucida
 - **B** Corona radiata
 - C Perivitelline space
 - \mathbf{D} Sperm
- (3) A Zona pellucida
 - **B** Corona radiata
 - \mathbf{C} Sperm
 - ${f D}$ Perivitelline space
- (4) A Corona radiata
 - ${f B}-{\sf Zona}$ pellucida
 - C Perivitelline space
 - \mathbf{D} Sperm

- 12. The sex of the baby is determined by
 - (1) Father
 - (2) Mother
 - (3) Either of the parent
 - (4) Both the parents
- 13. Chromosome set in a sperm can be
 - (1) 23 + X
 - (2) 23 + Y
 - (3) 22 + XY
 - (4) 22 + X

ANSWER KEY

(2) 1.

(4) 2.

3. (4)

4. (1)

5. (4)

(1)

(1)

8. (1)

9. (2) 10. (2) 11. (2)

12. (1)

13. (4)