

BIOLOGY CLASS 12 BATCH

Human Reproduction

DPP-09

1. Event in which the blastocyst becomes embedded in the endometrium of the uterus is called

(1) Gastrulation (2) Cephalization
(3) Implantation (4) Cleavage

2. Identify the correct sequence

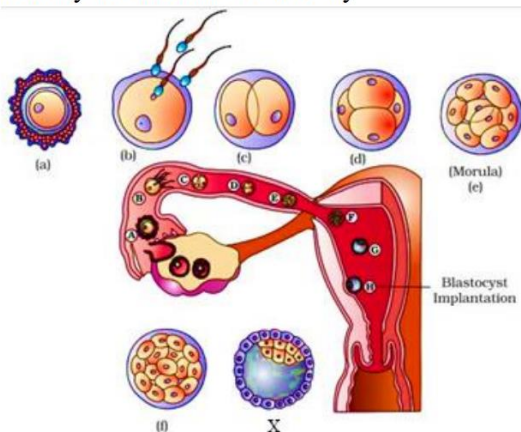
(1) Zygote → Gastrula → Blastocyst → Morula
(2) Zygote → Blastocyst → Morula → Gastrula
(3) Zygote → Morula → Blastocyst → Gastrula
(4) Zygote → Gastrula → Morula → Blastocyst

3. Match the following

a.	Ovum	i.	8-16 celled embryo formed in fallopian tube
b.	Zygote	ii.	Implantation occurs in the uterine endometrium
c.	Morula	iii.	Formed after sperm entry
d.	Blastocyst	iv.	Single, diploid cell formed as a result of fertilisation

(1) a – iii, b – iv, c – i, d – ii
(2) a – iv, b – iii, c – i, d – ii
(3) a – ii, b – iv, c – i, d – iii
(4) a – i, b – iv, c – iii, d – ii

4. Identify the structure X correctly



(1) Morula (2) Blastocyst
(3) Ootid (4) Blastomere

5. Trophoblast and Inner cell mass are characteristic of

(1) Morula (2) Blastocyst
(3) Gastrula (4) Zygote

6. “Cells of Rauber” are

(1) Trophoblast cells in contact with Inner cells mass
(2) All the cells of Inner cells mass
(3) All the trophoblast cells
(4) Cells of morula

7. The sex of the baby is determined by

(1) Father
(2) Mother
(3) Either of the parent
(4) Both the parents

8. Chromosome set in a sperm can be

(1) 23 + X (2) 23 + Y
(3) 22 + XY (4) 22 + X

9. Identical twins are

(1) Also called monozygotic twins
(2) Always of same gender
(3) Formed from fertilisation of one egg with one sperm
(4) All of the above

10. Non identical twins are

(1) Also called fraternal/ dizygotic twins
(2) Formed from fertilisation of two eggs with two sperms independently
(3) May or may not be of same gender
(4) All of the above

11. Which layer of blastocyst gets attached to the endometrium?

(1) Trophoblast
(2) Umbilical cord
(3) Inner cell mass
(4) Both (1) & (2)

12. Fast block to polyspermy

- (1) Occurs when fastest sperm comes in contact with plasma membrane of female gamete
- (2) Occurs when fastest sperm enters the female gamete
- (3) Occurs when fastest sperm comes in contact with zona pellucida
- (4) Occurs when fastest sperm comes in contact with corona radiata

ANSWER KEY

1. (3)
2. (3)
3. (1)
4. (2)
5. (2)
6. (1)

7. (1)
8. (4)
9. (4)
10. (4)
11. (1)
12. (1)