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**Max Time : 1 hr** **Class = 12th Biology Test**  **Max Marks : 30**

**HUMAN REPRODUCTION**

1. Multiple choice questions : [ 1 X 6 = 6]
2. Match column I and column II

|  |  |  |
| --- | --- | --- |
| Column I | Column II | |
| A. Trophoblast | I. Embedding of blastocyst in the endometrium | |
| B. Cleavage | II. Group of cells that would differentiates as embryo | |
| C. Inner cell mass | III. Outer layer of blastocyst attached to endometrium | |
| D. Implantation | IV. Mitotic division of zygote | |
| a) A – II ; B – I ; C – III ; D – IV | | | b) A – III ; B – IV ; C – II ; D – I | |
| c) A – III ; B – I ; C – II ; D – IV | | | d) A – II ; B – IV ; C – III ; D – I | |

1. Morula is developmental stage of :

|  |  |
| --- | --- |
| a) Between the zygote and blastocyst | b) Between the blastocyst and gastrula |
| c) after the implantation | d) Between implantation and parturition |

1. Colostrum, the yellowish fluid secreted by mother during the initial days of lactation is very essential to impart immunity to the new born infants because it contains:

|  |  |  |  |
| --- | --- | --- | --- |
| a) immunoglobulin A | b) natural killer cells | c) monocytes | d) macrophages |

1. Which one of the following serves as embryonic urinary bladder?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Amnion | b) chorion | c) Allantois | d) Yolk sac |

1. Which gland releases a small amount of fluid just prior to ejaculation to decrease acidity in the urethra caused by urine?

|  |  |  |  |
| --- | --- | --- | --- |
| a) prostrate | b) glans penis | c) seminal vesicle | d) Cowper’s gland |

1. Follicular atresia is :

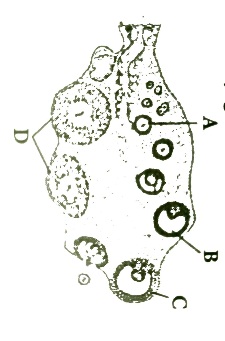
|  |  |
| --- | --- |
| a) Formation of corpus luteum | b) Degeneration of follicles |
| c) Formation of Graaffian follicles | d) Increased in number of follicles |

1. Explain function of Umbilical cord. [ 1 ]
2. Which part of the blastula is destined to form the germ layers of the developing embryo in humans?

[ 1 ]

1. Define Spermiation. [ 1 ]
2. Write the effect of high concentration of LH on mature Graafian follicle. [ 1 ]
3. Define parturition? [ 1 ]
4. What is Placenta? Write any 3 functions of placenta. [ 2 ]
5. Define Acrosomal reaction. [ 2 ]
6. What are the events taking place in the ovary and uterus during follicular phase of the menstrual cycle? [ 2 ]
7. State the fate of trophoblast of a human blastocyst at the time of implantation and that of the inner cell mass immediately after implantation. [ 2 ]
8. When and where do chorionic villi appear in humans? State their function. [ 2 ]
9. Distinguish between : [ 3 ]
10. Corona radiata and Zona pellucida (b) Blastula and Gastrula
11. Write specific location and the function of the following : [ 3 ]
12. Leydig’s cells (b) Sertoli cells (c) Primary spermatocyte
13. Study the transverse section of human ovary given below and answer the following questions :

[ 3 ]



(a) Name the hormone that’s helps in growth of A B C.

(b) Name the hormone secreted by A and B

(c) State the role of hormone produced by D.