

**Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University), Coimbatore-641 043**

Bachelor's Degree Examination November 2018

I Semester

**Class : I UG
Major : Human Development**

**Time :3 hours
Max. Marks: 100**

18BHDC01 – Foundations of Development

Part-A

10 x 1=10

Choose the correct answer

- _____are rod like structures which store and transmit genetic information
 - genes
 - mitochondria
 - chromosomes
 - RNA
- Chromosomes are made up of _____
 - genes
 - RNA
 - nuclei
 - DNA
- DNA replicates through
 - mitosis
 - cell division
 - duplication
 - gametogenesis
- Halving of number of chromosomes is called _____.
 - mitosis
 - meiosis
 - splitting
 - fusion
- Mental retardation, memory and speech problems, limited vocabulary and slow motor development are characteristics of _____.
 - mutation
 - Turner syndrome
 - Downs syndrome
 - phenylketonuria
- The spot on the ovary where the ovum is released is called _____.
 - cervix
 - corpus luteum
 - uterus
 - fistula
- Implantation occurs between _____day.
 - 5th and 6th
 - 6th and 7th
 - 7th and 9th
 - 8th and 10th
- How many pairs of sex chromosome do human being have?
 - only one
 - two
 - three
 - four
- XXY is called _____.
 - Double X syndrome
 - Klinefelter syndrome
 - Turner syndrome
 - Downs syndrome
- The first 22 pairs of chromosomes are called _____.
 - autosomes
 - sex chromosomes
 - allosomes
 - alleles

Part B

5 X 6=30

Answer the following
Answer should not exceed 400 words or two pages

11.a. Differentiate between growth and development.

(or)

11.b. Illustrate the components coming under the purview of the cognitive domain of development.

12.a. Demonstrate the components of social development.

(or)

12.b. Explain in brief on the birth of multiple offspring.

13.a. Differentiate between mitosis and meiosis.

(or)

13.b. Describe codominance with an example.

14.a. Differentiate Phenotype and Genotype.

(or)

14.b. Explain Klinefelter syndrome and Turner syndrome.

15.a. Explain the interdisciplinary nature of the three domains of development.

(or)

15. b. Examine the characteristics of Down's syndrome.

Part C

5 x 12=60

Answer the following
Answer should not exceed 800 words or four pages

16.a. Discuss the basic principles governing growth and development.

(or)

16.b. Categorise and explain the characteristics of middle and old age.

17.a. Discuss the Symptoms, Causes and Characteristics of Down's Syndrome.

(or)

17.b. Explain any 4 Chromosomal abnormalities occurring in human beings.

18.a. Identify and elaborate on the various diagnostic methods used for prenatal testing.

(or)

18.b. Illustrate the structure of ovum and explain its functions.

19.a. Draw a neat sketch on the structure of the sperm and explain.

(or)

19. b. Describe the process of conception in detail.

20.a. Illustrate the process of mitosis in detail.

(or)

20.b. Discuss the process of meiosis in detail.
