

## **CHAPTER-3 | Human Development**

QUIZ PART-02

- 1. Which pair lists the two broad factors influencing development?
  - A. Heredity and environment
  - B. Biology and technology
  - C. Parenting and diet
  - D. Schooling and peers

**Explanation:** Development is influenced by heredity and environment as the two broad determinants.

- 2. What does heredity primarily involve?
  - A. Cultural traditions passed down socially
  - B. Transmission of traits across generations through genes
  - C. Skills learned through schooling
  - D. Behaviors shaped by peer groups

(B)

- **Explanation**: Heredity refers to traits passed from one generation to the next and is governed by genes.
- 3. Which statement best defines environment in development?
  - A. Only the physical surroundings in early childhood
  - B. The genetic blueprint of a person
  - C. All external conditions—family, culture, education—that affect development
  - D. The biological mechanism of inheritance (C)
- **Explanation:** Environment includes all external conditions that influence development, such as family, culture, and education.
- 4. Which option best describes the principle of heredity?
  - A. Traits are shaped only by schooling
  - B. Traits change randomly across a lifetime
  - C. Traits are passed through a biological mechanism across generations
  - D. Traits depend solely on nutrition (C)
- **Explanation:** The principle states that traits are transmitted biologically from one generation to the next.
- 5. What is genotype?
  - A. Observable characteristics shaped by experience alone
  - B. The genetic makeup or inherited potential
  - C. A set of learned behaviors
  - D. The cultural background of an individual (B)
- **Explanation:** Genotype is the genetic makeup that represents inherited potential.

- 6. What is phenotype?
  - A. The set of genes carried by an individual
  - B. The environment shared by family members
  - C. Observable traits resulting from genotype interacting with environment
  - D. A learned skill acquired through practice
- **Explanation:** Phenotype reflects the observable expression resulting from both genetic makeup and environmental influences.
- 7. Which statement captures how inherited traits are expressed?
  - A. Genes alone determine all observable traits
  - B. Environment alone determines all observable traits
  - C. The environment shapes how inherited traits are expressed
  - D. Traits are unaffected by either genes or environment
- **Explanation:** Environmental conditions influence the expression of genetically inherited traits.
- **8.** Which of the following is an example of environmental influence on development?
  - A. Eye color inherited from parents
  - B. Blood type
  - C. Language spoken at home
  - D. Genetic disorder
- (C)

(C)

- **Explanation:** Language spoken at home is an external, contextual factor and thus an environmental influence.
- 9. Which relationship among key terms is accurate?
  - A. Genotype = environment; phenotype = genes
  - B. Genotype + environment  $\rightarrow$  phenotype
  - C. Phenotype + environment  $\rightarrow$  genotype
  - D. Environment + phenotype  $\rightarrow$  genotype (B)
- **Explanation:** Observable traits (phenotype) arise from the interaction between genetic makeup (genotype) and environment.
- 10. Which comparison correctly distinguishes genotype from phenotype?
  - A. Genotype is observed directly; phenotype is always hidden
  - B. Genotype is inherited potential; phenotype is its observable expression
  - C. Genotype changes with schooling; phenotype never changes
  - D. Genotype is cultural background; phenotype is biological heritage
- **Explanation:** Genotype denotes inherited potential, while phenotype denotes the observable outcomes of that potential in context.