

UNIT TEST

STANDARD – 12TH (E)

TOTAL MARKS – 25

SUBJECT – BIOLOGY

TIME – 1 HOUR

SUBJECT CODE – 056

MEDIUM - ENGLISH

Part - A

Section – A

❖ **Do as directed. Each question carries 1 marks.** **[09]**

(1) How many types of gamete will be produced by individuals of aaBBCc genotype?

- (a) Two (b) Four (c) Three (d) Six

(2) When both alleles of a pair are fully expressed in a heterozygote, they are called

- (a) Multiple alleles (b) Co-dominants
(c) Recessive alleles (d) incomplete-dominants

(3) Ranveer is having colour-blindness and married to Sheela, who is not Colour blind. What is the chance that their son will have the disease?

- (a) 100% (b) 50% (c) 25% (d) 0%

(4) The transforming substance of pneumococcus in Griffith's experiment was

- (a) Protein (b) RNA (c) DNA (d) Polysaccharide

(5) A sequence of three RNA base can function as

- A Codon B gene C anticodon D nucleosides

- (a) A,C (b) A,B,C,D (c) B,C,D (d) A,B,C

(6) Which of the following represents a bond between a purine and pyrimidine in that order?

- (a) C - T (b) G - A (c) G - C (d) T - A

(7) Which of the following non-infectious disease is a major cause of death in human beings?

- (a) AIDS (b) Cirrhosis (c) Cancer (d) Asthma

(8) In leukemia there is tremendous increase in the number of

- (a) RBC (b) Immature cells
(c) WBC (d) Both WBC and Immature cells

(9) Which of the following disease cause chronic inflammation in the Lymphatic vessels of the lower limb that results into its massive swelling?

- (a) Ascariasis (b) Filariasis (c) ameobiasis (d) trypanosomiasis

Part-B

Section – A

❖ **Answer the following questions. Each carries 2 marks. [06]**

Q.10 What is point mutation? Give an example.

Q.11 Which criteria much fulfill by a molecule that can act as a genetic material?

Q.12 Differentiate – Active and Passive immunity and give examples of each:

OR

Describe briefly : Types of barrier for Innate immunity.

Section – B

❖ **Answer the following questions. Each carries 3 marks. [06]**

Q.13 List salient features of genetic code.

OR

Explain : Packaging of DNA in eukaryotic cell.

Q.14 What is the mechanism by which the AIDS virus causes deficiency of immune system of the infected person?

Section – C

❖ Answer the following question. It carries 4 marks.

[04]

Q.15 Explain the law of Independent Assortment using dihybrid cross.

OR

Explain : (1) Sickle – Cell anaemia

(2) Klinefelter's syndrome