

BIOLOGY

21. Central dogma in molecular biology was proposed by - [NCERT XII Pg. No. 97]
 (1) Watson (2) Meischer
 (3) Francis Crick (4) Willkins
22. Total number of base pairs in a DNA is found to be 4.6×10^6 . Calculate the total length of the genetic material.
 [NCERT XII Pg. No. 97]
 (1) 2.2 m (2) 1.5 mm
 (3) 3.6 m (4) 3 mm
23. Vertical rise = [NCERT XII Pg. No. 97]
 (1) Distance between two nucleotide base pairs in a DNA.
 (2) Total length of a genetic material.
 (3) Length of hydrogen bonds between nitrogen bases in an RNA
 (4) Sum of glycosidic bonds and hydrogen bonds in a DNA.
24. During DNA replication, Okazaki fragments are used to elongate
 [NCERT XII Pg. No. 106] (NEET 2017)
 (1) the leading strand towards replication fork.
 (2) the lagging strand towards replication fork
 (3) the leading strand away from replication fork
 (4) the lagging strand away from replication fork
25. The unequivocal proof that DNA is the genetic material came from the experiments of Hershey and Chase using
 [NCERT XII Pg. No. 101]
 (1) N^{15} (2) N^{14}
 (3) S^{32} (4) P^{32}
26. Semiconservative method of DNA¹ replication was performed by scientist Taylor in - [NCERT XII Pg. No. 105]
 (1) *E.coli*
 (2) *Vicia faba*
 (3) Human
 (4) *Pisum sativum*
27. A disease caused by an autosomal primary non-disjunction is
 [NCERT XII Pg. No. 92]
 (1) Klinefelter's syndrome
 (2) Turner's syndrome
 (3) Sickle cell anaemia
 (4) Down syndrome
28. Which of the following characteristics represent 'Inheritance of blood groups' in humans?
 [NCERT XII Pg. No. 77] [NEET 2018]
 A. Dominance
 B. Co-Dominance
 C. Multiple allelism
 D. Incomplete dominance
 E. Polygenic inheritance
 (1) B, D and E (2) A, B and C
 (3) B, C and E (4) A, C and E
29. Select the correct match
 [NCERT XII Pg. No. 91]
 (1) Phenylketonuria – Autosomal dominant trait
 (2) Sickle cell anaemia – Autosomal recessive trait
 (3) Thalassaemia – X linked
 (4) Haemophilia – Y linked
30. Dominant trait for pod colour in pea plant - [NCERT XII Pg. No. 71]
 (1) Yellow (2) Green
 (3) Violet (4) White