



A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET - 5

Class: X Sub: Life Science Date: 28.06.2021

Topic: Ch 2 Continuity of Life: Chemical components of chromosome F.M.: 15

Choose the correct option: (1x15=15)
1. Chromatin is composed of DNA, RNA and
a) protein b) carbohydrate c) fat d) none of these
2. Purified chromatin isolated from interphase nuclei consists of about% RNA.
a) 30-40 b) 50-65 c) 10-30 d) 0.5-10
3. DNA is made up of molecules called
a) nucleosides b) nucleotides c) nitrogen bases d) sugar groups
4. Example of a purine is
a) Uracil (U) b) Thymine (T) c) Guanine (G) d) Cytosine (C)
5. Each base pair is formed from two complementary nucleotides bound together by
bonds.
a) nitrogen b) oxygen c) hydrogen d) none of these
6. The deoxyribose sugar in DNA is a sugar.
a) pentose b) hexose c) septose d) none of these
7. The DNA gets its polarity from of the sugar.
a) location b) structure c) bonding d) numbering system
8. The linkages between nucleotides occur between the positions on the sugar group.
a) 2' and 3' b) 5' and 3' c) 1' and 4' d) 1' and 5'
9. Each nucleotide contains a group, a sugar group and a nitrogen base.
a) phosphate b) carbonate c) sulphate d) nitrate
10. Histones constitute about% of the total chromosomal protein.
a) 55 b) 60 c) 78 d) 80
11. Euchromatin contains genes and is considered as the active part.
a) structural b) repetitive c) both d) neither
12 regions of chromosome invariably contain heterochromatin.
a) Telomeric b) Chromatid c) Centromeric d) Satellite
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 13. Nucleotides are arranged in long strands that form a double helix spiral. a) two b) three c) four d) five 14. The functions of heterochromatin are - a) helps in gene regulation, b) protection of chromosome integrity, c) both, d) neither

- 15. A nitrogen base pair in DNA is
 - a) Adenine (A) with Guanine (G) b) Cytosine (C) with Thymine (T) c) G with C d) A with T

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