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**Q.1-The monomeric deoxyribonucleotide units of DNA include all except-**

- A) Deoxyadenylate,
- B) Deoxyguanylate
- C) Deoxycytidylate,
- D) Deoxyuridylate**
- E) Thymidylate

**Q.2- The two strands of this double-stranded helix are held in register by-**

- A) Hydrogen bonds between the purine and pyrimidine bases of the respective linear molecules
- B) Van der Waals forces between the stacked adjacent base pairs
- C) Hydrophobic interactions between the stacked adjacent base pairs
- D) All of the above
- E) None of the above.

**Q.3- Chargaff's rule states that in a double stranded DNA molecule-**

- A) Concentration of Deoxyadenosine (A) nucleotides equals that of Thymidine (T) nucleotides**
- B) Concentration of Deoxyadenosine (A) nucleotides equals that of Deoxy guanosine (G) nucleotides
- C) Concentration of Deoxy cytidine (C) nucleotides equals that of Thymidine (T) nucleotides
- D) Concentration of Deoxy uridine (U) nucleotides equals that of Deoxy guanosine (G) nucleotides.
- E) All of the above.

**Q.4- Choose the incorrect statement out of the following:**

- A) Double-stranded DNA exists in at least six forms (A–E and Z)
- B) The B form is usually found under physiologic conditions
- C) Single turn of B-DNA about the axis of the molecule contains six base pairs**

D) The distance spanned by one turn of B-DNA is 3.4 nm

E) The width (helical diameter) of the double helix in B-DNA is 2 nm.

**Q.5- When the DNA molecule is twisted in the direction opposite from the clockwise turns of the right-handed double helix found in B-DNA, such DNA is said to have acquired-**

A) Z form

B) A form

C) Positive supercoils

**D) Negative supercoils**

E) No change.

**Q.6- Choose the correct statement out of the following:**

A) The common form of DNA is said to be Left-handed

B) The coding strand is copied during RNA synthesis

C) The two strands of the double-helical DNA molecule run parallel to each other

D) Template strand matches the sequence of the RNA transcript

**E) The G–C bonds are much more resistant to denaturation than A–T-rich regions.**

**Q.7- Ribonucleic acid (RNA) is a polymer of purine and pyrimidine ribonucleotides linked together by-**

A) Hydrogen bonds

B) Hydrophobic interactions

C) Vander wal's forces

**D) 3'-5' Phosphodiester linkages**

E) 5'-3' Phosphodiester linkages

**Q.8- Which of the following types of RNA participate in RNA processing?**

A) t-RNA

B) r-RNA

**C) Small nuclear RNA (snRNA)**

D) Small Interfering RNAs (siRNAs)

E) Heterogeneous nuclear RNA (hnRNA)

**Q.9- The anticodon region is an important structural component of-**

A) m-RNA

B) DNA

C) r- RNA

**D) t-RNA**

E) Micro RNAs

**Q.10- The Small Nuclear RNAs (snRNAs) are rich in-**

**A) Uracil**

B) Cytosine

C) Thymine

D) Adenine

E) Guanine