

## Examrace

### Competitive Exams: Revision Terminology Part 6

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- $N_2$  base + pentose sugar = Nucleoside + phosphate = Nucleotide
- Higher Nucleotides in face State ( $2^{nd}$  &  $3^{rd}$  release 8 kcal/mol on hydrolysis)
- NAD = Universal hydrogen acceptor.
- RNA = produced in nucleus stored in nucleolus moves out in cytoplasm
- Extra nuclear DNA chloroplast & mitochondria
- Pyrimidine's in DNA – 5 methyl cytosine – wheat germ, thymus
- Pyrimidine's in DNA – 5 hydroxyl methyl cytosine – Teven E. coli
- X ray diffraction of DNA – wilking, franklin, Asturby
- On heating – 2 strands of DNA uncoil & denature
- On cooling – 2 strands of DNA together – annealing/renaturation
- Z – DNA – Zigzag sequence, dinucleotide, left handed double helical Wang, Rich (1979)  
– CGCGCG sequences, 12 base pair (pro & eukaryote) – gene recombination
- A DNA will be shorter & have greater diameter then B - form
- High degree of stability of DNA helix – large no of  $H_2$  bond between base pair, right-handed to left handed helix.
- V. Sasisekharan – RL model – B – DNA has alternating right & left fragment = conformation flexibility
- Ds RNA = Reovirus/Rice Dwarf virus.
- M – RAN – Jacob & monad – synthesis of protein
- R- RAN – largest RAN – protein synthesis
- T – RAN – Clover lead like structure
- Ni – urease
- Mo – dinitrogenase

- DNA – percentage of C = 18 percentage of A = ? Solving this question we have,  
 $A + G + C + T = 100\%(G = C)$  and then  $A + T + 18 + 18 = 100(A = T)$ , so we can say that  $2A = 64$  and  $A = 32\%$
- Bright field microscopy – bright light & object appears dark
- Compound microscope – 2 lenses (1) objective (2) eyepiece (ocular)
- 100 X = highest power = oil immersion lens (abbe)
- $\theta = 39$  degree in high power objective
- Resolving power =  $\frac{1}{\text{limit of resolution}}$

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