

A JOINT VENTURE OF DIET AND SSK, PALAKKAD

**BIOLOGY
STANDARD : X**



VICTERS CLASS: 39

DATE:23/12/2020

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1). Identify the word pair and fill in the blanks.

a) Adenine : Thymine
Guanine :

b) DNA : Thymine
RNA :

2). Find out the odd one and mention the general character of others.
Adenine, Cytosine, Uracil, Guanine

3). Find out the nitrogen base which is not included in RNA?
Adenine, Thymine, Cytosine, Uracil

4). Analyse the given nitrogen bases and pair the nitrogen bases as seen in DNA.

Thymine

Uracil

Guanine

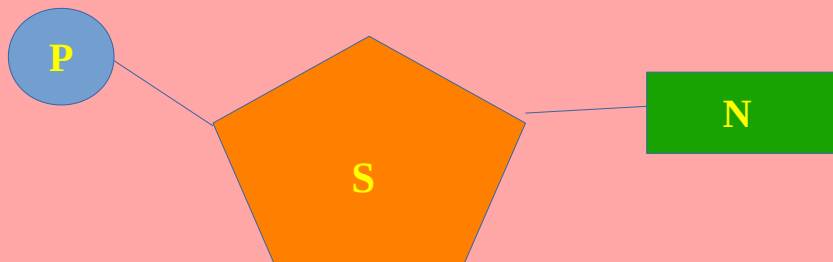
Cytosine

Adenine

5) Identify the 1962 Nobel prize winners, what is their contribution to the world of science?



6). Observe the figure given below and answer the following questions.



- Identify the figure.
- What do P, S and N indicate?

7). **'Nucleotides are seen only in DNA'**. Do you agree with this statement?
Justify your answer

8). Pick out the wrong statements and correct it.

- In DNA, the adenine pairs only with cytosine and guanine pairs only with thymine.
- Carriers of heredity are the genes present in DNA.
- DNA has adenine, thymine, cytosine, uracil nucleotides.
- DNA is Deoxyribonucleotide.



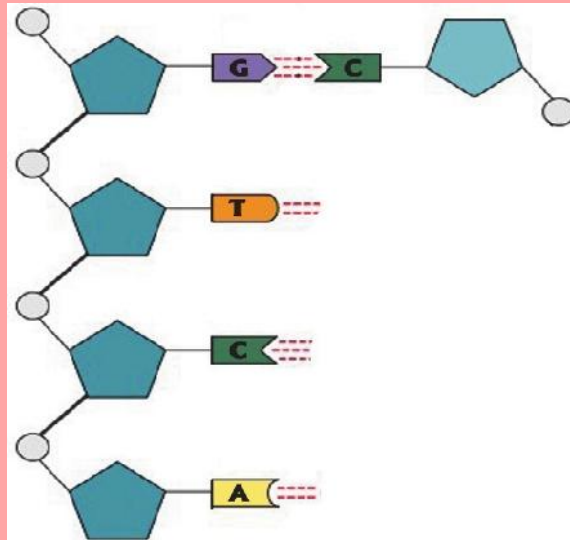
9). Mother has long straight hair, while Meenu has curly hair. These are based on the genes. But Meenu doesn't know where the genes are present. Please help her.

10). Peculiarities and building blocks of nucleic acids are given below. Arrange them in the table suitably.

- Double helical model
- Ribose sugar
- Thymine
- Single strand
- Uracil
- Deoxyribose sugar

| DNA | RNA |
|-----|-----|
| | |

11).The arrangement of nucleotides in a DNA molecule is illustrated below.
Redraw this illustration and complete it's second strand.



12). Observe the figure given below and answer the following questions.



- Identify the figure.
- What are the long strands made up of?
- How the rungs are formed?
- Which is the basic structural unit of this molecule?