

# Unit 2 - Week 0: Prerequisite

## Course outline

How does an NPTEL online course work?

### Week 0: Prerequisite

- Quiz : Assignment 0
- Solution for Assignment "0"

### Week 1: Nucleic acids and proteins

### Week 2: Nucleic acids and proteins

### Week 3 : Synthesis of Nucleobases and Nucleotides

### Week 4 : DNA Replication, Polymerases, DNA Sequencing and PCR

### Week 5 : DNA Replication, Polymerases, DNA Sequencing and PCR

### Week 6: DNA damage, mutation and cancer

### Week 7: DNA to proteins: transcription, translation and genetic code`

### Week 8: Protein Sequencing and Solid Phase Peptide Synthesis (SPPS)

### Week 9: Chemical Synthesis of Peptides and its therapeutic applications; Spectroscopic techniques for biomolecules.

### Week 10: Modern techniques for biomolecules study, purification and characterization; Molecular probes

### Week 11: Molecular probes and Chemistry of carbohydrates

### Week 12: Chemistry of carbohydrates and Recap

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## Assignment 0

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

**Due on 2020-01-26, 23:59 IST.**

1) Among the following, the biomolecule(s) are:

2 points

- (a) DNA
- (b) HCl
- (c) Cyclohexane
- (d) Vitamins

No, the answer is incorrect. Score: 0

Accepted Answers:

- (a) DNA
- (d) Vitamins

2) Can the nucleobases be synthesized in laboratory?

1 point

- (a) Yes
- (b) No

No, the answer is incorrect. Score: 0

Accepted Answers:

- (a) Yes

3) Among the following the constituent(s) of RNA is/are:

2 points

- (a) Thymine
- (b) Uracil
- (c) Deoxyribose
- (d) Guanine

No, the answer is incorrect. Score: 0

Accepted Answers:

- (b) Uracil
- (d) Guanine

4) Peptides are primarily composed of:

1 point

- (a) Sugars
- (b) Nucleobases
- (c) Amino acids
- (d) Lipid

No, the answer is incorrect. Score: 0

Accepted Answers:

- (c) Amino acids

5) Nucleobases are found in:

2 points

- (a) DNA
- (b) RNA
- (c) Protein
- (d) Carbohydrates

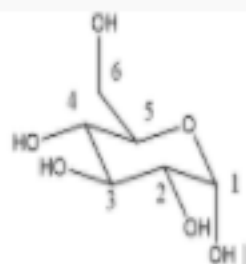
No, the answer is incorrect. Score: 0

Accepted Answers:

- (a) DNA
- (b) RNA

6) The anomeric carbon in glucose is:

2 points



- (a) C-2
- (b) C-6
- (c) C-5
- (d) C-1

No, the answer is incorrect. Score: 0

Accepted Answers:

- (d) C-1