

- Choose the correct answer [1x2=2]
 - The pyrimidine base present in DNA are
 - Cytosine and adenine
 - Cytosine and guanine
 - Cytosine and thymine
 - Cytosine and uracil
 - Which position of the purine base is attached to 1-position of pentose sugar in a polynucleotide chain?
 - N-1
 - N-3
 - N-7
 - N-9
- Answer any one [2x1=2]
 - Write the structure and names of purines and pyrimidines that are presents in DNA and RNA.
 - Distinguish between RNA and DNA
- Write short notes on (any one) [3x1=3]
 - Biosynthesis of protein.
 - Replication of DNA
 - Watson Crick double helix structure of DNA
- Write synthetic equivalent of the following synthons [2]
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- How would you synthesise the following by retrosynthesis (any two) [2 1/2 x 2 = 5]
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- Answer any three [2x3=6]
 - What is essential and non essential amino acid? Explain with examples
 - How will you determine the primary structure of a tripeptide by Edman method?
 - How will you synthesise leucine ?
 - How will you prepare alanylvaline?
- Short note (any three) [3x3=9]
 - Characteristics of enzyme
 - Mechanism of enzyme action
 - Phenomenon of Inhibition
 - Coenzymes and cofactors
- Answer any five of the following questions. [5x2=10]
 - Define mode of action of antimalarial drug.
 - Write down the synthesis process of paracetamol.
 - Prepare sulphanilamide from 1. benzene and 2. Acetanilide.
 - What is Ranitidine. Write down four therapeutic uses of ranitidine.
 - Write down the medicinal value of vitamin c and azadirachtin.
 - Short note on chloramphenicol.
 - Define antibacterial, antacid and antibiotic with examples.
- Draw the structure of Vitamin C. [1]