

## USMLE STEP 1 BIOCHEMISTRY EXAM 2025/2026 QUESTIONS WITH ANSWERS GRADED A+

✓✓What type of Antibiotics inhibit bacterial topoisomerase 4? - ✓✓Quinolones

✓✓\_\_\_\_\_chromatin is tightly coiled and transcriptionally inactive while \_\_\_\_\_chromatin is less condensed and is transcriptionally active. - ✓✓Heterochromatin; Euchromatin

✓✓DNA methylation often \_\_\_\_\_ genes while histone acetylation \_\_\_\_\_. -

✓✓Inactivates (decreases gene transcription); Loosens DNA making it more accessible and more easily transcribed.

✓✓Sjogren's syndrome (lymphocytic infiltration of salivary and lacrimal glands resulting in dry mouth/dryeyes) is often associated with antibodies against SS-A/B (single strand binding proteins). What role do these proteins play in prokaryotic DNA replication? - ✓✓SS-DNA binding protein binds and stabilizes ssDNA to prevent re-annealing

✓✓DNA polymerase III has polymerase activity in the \_\_\_\_\_ direction and exonuclease activity in the \_\_\_\_\_ direction. - ✓✓5 to 3; 3 to 5

✓✓The primer for DNA replication synthesized by primase is made of DNA or RNA? - ✓✓RNA

✓✓RNA primer removal in DNA synthesis is done by DNA polymerase \_\_\_\_\_. - ✓✓I

✓✓What DNA replication enzyme is responsible for sealing the remaining nicks? - ✓✓DNA ligase

✓✓What are the 3 stop codons? - ✓✓UGA, UAG, UAA

✓✓Proteins are synthesized from \_\_\_\_\_ to \_\_\_\_\_ terminus. - ✓✓N; C

✓✓1 codon for \_\_\_\_\_ amino acid. - ✓✓1

✓✓DNA to RNA is known as \_\_\_\_\_. - ✓✓Transcription

✓✓RNA to protein is known as \_\_\_\_\_. - ✓✓Translation

✓✓What is the Translation start codon and what amino acid does it code for? -

✓✓AUG; Methionine

# Active Biochemistry Answers

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