



QUAID-I-AZAM UNIVERSITY ISLAMABAD

B.Sc. Annual Examinations--2013
(PART-I)

Roll No: _____

SUBJECT: Biochemistry

PAPER: A (Theory)

June 26, 2013

SECTION-B (SUBJECTIVE)

To be attempted in 2 hours and 20 minutes

Max Marks: 68

Note: Attempt any **FOUR** questions. All questions carry equal marks.

Q.No. 3 Derive individual demand curve through indifference curve technique. (17)

Q.No. 4 What is perfect

(a) Draw the structure of DNA polymerase and name the Domain also. (2)

(b) Write a detailed note on the DNA Replication along with enzymes involved and draw the diagram also. (6)

Q.No. 5

(a) Post Translational Modification serves several purposes. Discuss with examples. (4)

(b) What is Genetic Code and what role does it play in the gene expression? (4)

Q.No. 6

What are the three phases of protein synthesis? Describe the Principal Events in each phase.

What specific role do Translation Factors play in both Prokaryotic and Eukaryotic Translational processes? (8)

Q.No. 7 Differentiate between the following.

(a) Transcription process in Prokaryotes and Eukaryotes. (4)

(b) Promoter Regions in Prokaryotes and Eukaryotes. (2)

Q No. 8 Write short notes on the following: (4x2=8)

(a) RNA Polymerase

(b) Nucleotides

(c) Ribosomes

(d) CODON ANTI-CODON INTERACTIONS