



ALLAMA IQBAL OPEN UNIVERSITY
Semester Terminal Exam Autumn 2020

Program /level:	BBA/Graduation	Maximum Marks	100
Title /Course Code	Pre-Calculus(8416)	Pass marks	50

Instructions for Exams:

1. Attempt All Questions.
2. Write answers in your own words and avoid copying from an internet source or any book.
3. Be precise, avoid unnecessary details, answer to each question must be between 600-800 words.
4. Students are advised to upload their answer sheets/solutions on LMS portal as soon as they complete their answers and not to wait for 8:30 PM.
5. Submissions after due date & time will not be entertained. Attach undertaking with each course code which were allowed to attempt in Urdu.
6. If plagiarism found, Student may be declared fail.

Q. No.	Questions	Marks
1	What is optimization? For a business, the main objectives are minimizing its costs and maximizing its profits. How can optimization help achieve these objectives? In your opinion, does optimization keep a check on qualitative characteristics such as quality in its analysis?	35
2	What is an annuity? Is an annuity worth more or less than a lump sum payment received now that would be equal to sum of all the future payments? What is the motive of investing the money instead of consuming it today when the value of money has to erode with time. Explain your answer with arguments.	35
3	You being the student of calculus and business, explain how the following concepts are helpful to the managers in a business environment: a) Optimization b) Annuities c) Discounted Cash Flows d) Normal Probability Distribution	30